

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: January 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45827

Ship Date: January 20, 1992

Order No.: 0005127-009

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.13
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.554
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	13.3
Pan		10.0 Max.	2.6
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

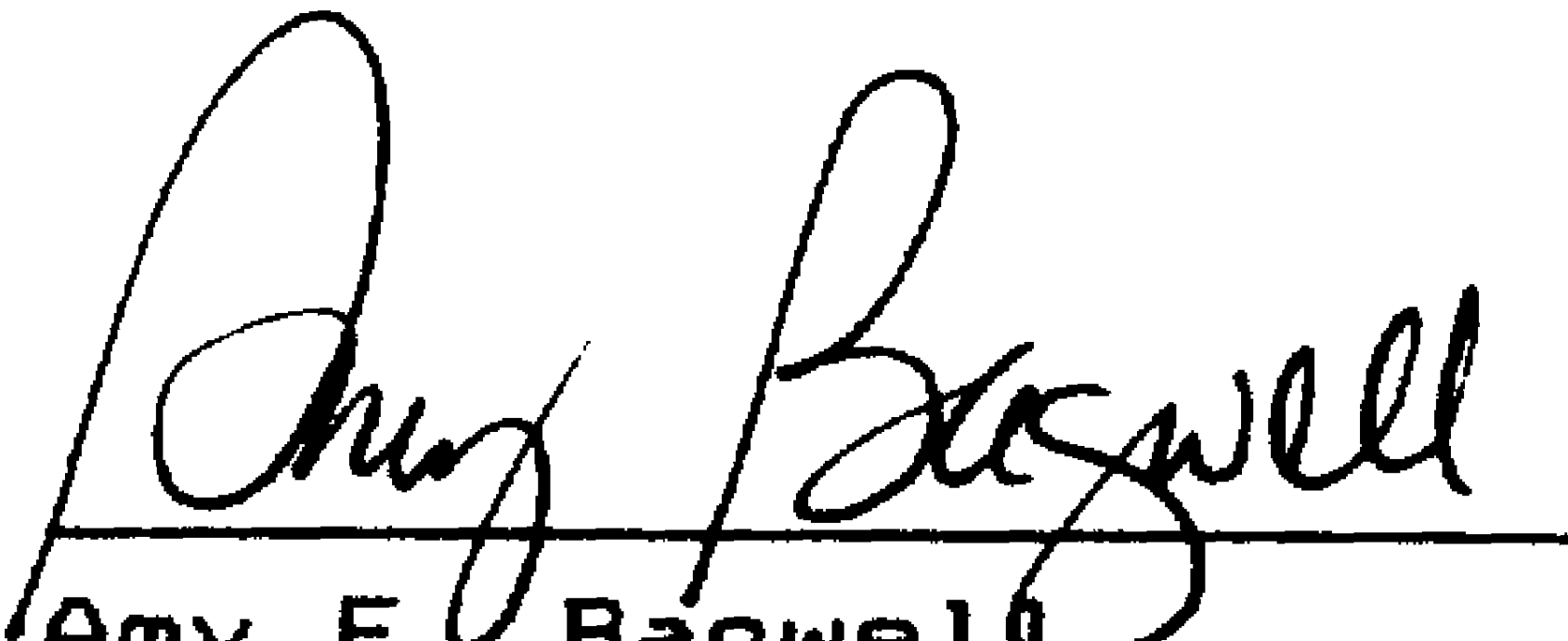
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	7
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.142
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200576

Rel.

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 1-17-92 Product: 5385 Car No.: 45827
Time Logged In: 1600 Logged In By: MIT Silo(s): 685-676
Ship Date: 1/20 Order No: 0005127-009 Customer: Concorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.10		.12	
Contamination	BL	4	5	5	4			
	BR	23	19	38	35			
Bulk Density	.558		.555		.553		.550	
BD after Fluff	.527		.563		.499		.530	
Hard Particle 7 5	18 7 mg							
Viscosity	.922							
RVCM	.142							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.13</u>	<u>6.06</u>	<u>12.40</u>	<u>14.15</u>	<u>9.09</u>	<u>6.64</u>	<u>1.28</u>
%	<u>0.0</u>	<u>.3</u>	<u>12.1</u>	<u>25.2</u>	<u>28.3</u>	<u>18.2</u>	<u>13.3</u>	<u>2.6</u>

Drytime: 4.8 Static Flow: 0 / 8.8 Avg. Microns: 140.6

Color L: 98.17 a .33 b 2.50

Technician: MM + TE

VAB.0001200577

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: January 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41167

Ship Date: January 21, 1992

Order No.: 0005932-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.02
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.8
Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	7
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.161
Inherent Viscosity	ABR-10	.90 to .95	0.95

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200578

PVC RAILCAR ANALYSIS

Load Date: 1-21-92 Product: 5385 Car No.: 41167
 Time Logged In: 0600 Logged In By: Co Silo(s): 676, 677, 685
 Ship Date: 1/21/92 Order No: 0005932-001 Customer: GenCorp

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.02		.02	
Contamination	BL	<u>10</u>	—	<u>11</u>	—	<u>9</u>	—	<u>10</u>
	BR	<u>9</u>	—	<u>5</u>	—	<u>12</u>	—	<u>8</u>
Bulk Density	<u>.586</u>		<u>.560</u>		<u>.571</u>		<u>.576</u>	
BD after Fluff	<u>.570</u>							
Hard Particle 7 5	<u>11</u> <u>7</u> R.P.	—	—	—	—	—	—	—
Viscosity	<u>.951</u>							
RVCM	<u>.161</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.32</u>	<u>9.02</u>	<u>13.52</u>	<u>12.82</u>	<u>7.45</u>	<u>5.42</u>	<u>1.03</u>
%	<u>0.0</u>	<u>0.6</u>	<u>18.0</u>	<u>27.0</u>	<u>26.6</u>	<u>14.9</u>	<u>10.8</u>	<u>2.1</u>

Drytime: 4.9 Static Flow: 0 11.2 Avg. Microns: 148.6

Color L: 99.98 a 0.07 b 1.81

Technician: D.J.H.L

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: January 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: GACX 73389

Ship Date: January 16, 1992

Order No.: 0005932-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	.14
Bulk Density, GM/CC	ABR-2A	.510 Min.	.593
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.0
200 Mesh		NDS	15.8
Pan		10.0 Max.	3.7
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

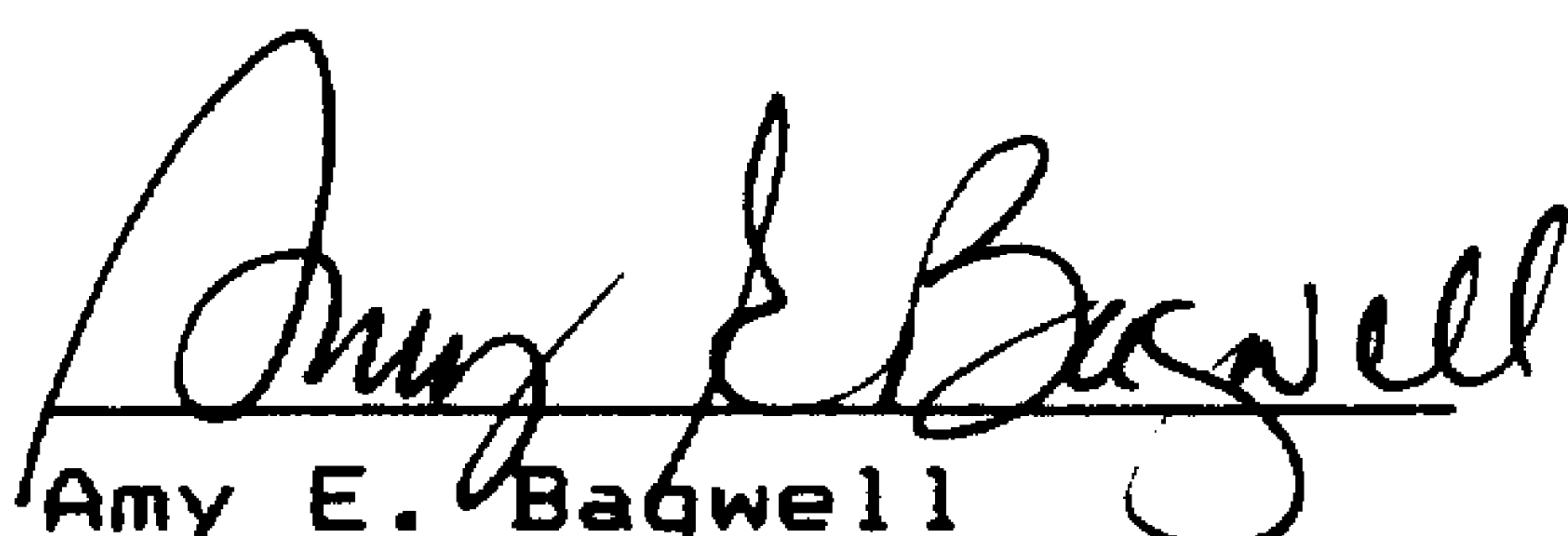
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	15
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	.433
Inherent Viscosity	ABR-10	.90 to .95	.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200580

PVC RAILCAR ANALYSIS

Load Date: 1-16-92Product: 5385Car No.: 73589Time Logged In: 0530Logged In By: CSSilo(s): 676, 677, 685Ship Date: 1/16/92Order No: 0005932-000Customer: GenCorp*No Metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.14		.14		.12	
Contamination	BL 5 BR 10	—	3 12	—	4 9	—	3 8	—
Bulk Density	.596		.580		.598		.585	
BD after Fluff								
Hard Particle 7 5	30 15 dcl	—	—	—	—	—	—	—
Viscosity	.930							
RVCM	.433							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>20</u>	<u>.04</u>	<u>6.30</u>	<u>1200</u>	<u>12.72</u>	<u>8.95</u>	<u>7.88</u>	<u>1.87</u>
% P	<u>0.0</u>	<u>.1</u>	<u>12.6</u>	<u>24.0</u>	<u>259</u>	<u>17.9</u>	<u>15.8</u>	<u>3.7</u>

Drytime: 4.8 Static Flow: 0 19.4 Avg. Microns: 138.1Color L: 100.20 a 0.02 b 1.95Technician: U. T & R. H

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: January 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44461

Ship Date: January 23, 1992

Order No.: 0005932-021

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.557
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	15.5
Pan		10.0 Max.	2.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

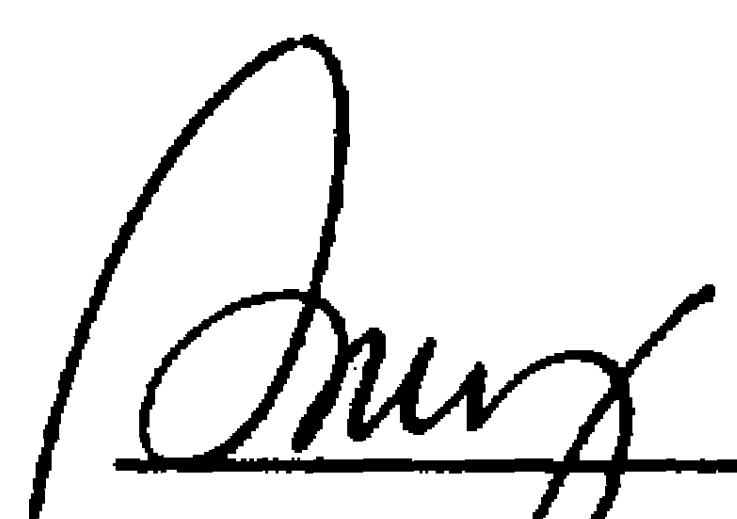
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.085
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200582

PVC RAILCAR ANALYSIS

Load Date: 1-22-92 Product: 5385 Car No.: 44461
 Time Logged In: 1330 Logged In By: D.T. Silo(s): 676, 77, 85
 Ship Date: 1/23/92 Order No: 0005932-002 Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.05		.01		.03	
Contamination	BL		8		5		9	
	BR		24		15		29	
Bulk Density	.568		.532		.577		.552	
BD after Fluff	.571		.535		.576		.537	
Hard Particle 7 5	18 4 DW							
Viscosity	.932							
RVCM	1.085							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.03</u>	<u>3.82</u>	<u>10.99</u>	<u>15.35</u>	<u>10.68</u>	<u>7.74</u>	<u>1.40</u>
% P	<u>0.0</u>	<u>0.1</u>	<u>7.6</u>	<u>22.0</u>	<u>30.6</u>	<u>21.4</u>	<u>15.5</u>	<u>2.8</u>
<	<u>0.0</u>	<u>3.0</u>	<u>17.9</u>	<u>18.3</u>	<u>27.0</u>	<u>19.9</u>	<u>10.2</u>	<u>3.7</u>
Drytime:	<u>4.9</u>		Static Flow:	<u>0</u>	<u>113.8</u>	Avg. Microns:	<u>134.0</u>	

Color L: 100.29 a 0.04 b 1.90

Technician: MT - TE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: January 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45910

Ship Date: January 24, 1992

Order No.: 0005127-011

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.10
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.574
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.5
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.2
Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

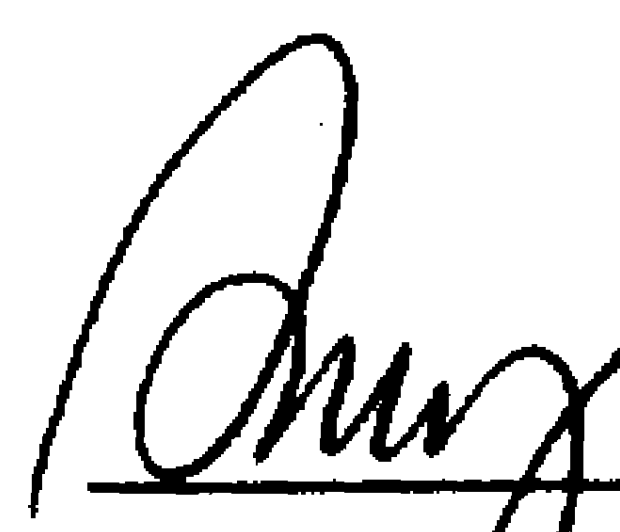
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.062
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200584

PVC RAILCAR ANALYSIS

Load Date: 1-23-92Product: 5385Car No.: 45910Time Logged In: 0500Logged In By: M.TSilo(s): 677-685Ship Date: 1/24/92Order No: 0005127-011Customer: Gencorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.03		.02		.10	
Contamination	BL 2 BR 6	—	7 4	—	2 1	—	2 3	—
Bulk Density	.574		.580		.571		.570	
BD after Fluff								
Hard Particle 7 5	50 3% 3%	—	—	—	—	—	—	—
Viscosity	.922							
RVCM	.062							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	44	11.23	14.62	12.31	6.38	4.12	1.05
%	0.0	0.9	22.5	29.2	24.3	12.8	8.2	2.1

Drytime: 4.5Static Flow: 0111.7Avg. Microns: 154.9Color L: 99.10 a 0.03 b 1.93Technician: G + JLC

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: January 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: GACX 73412

Ship Date: January 27, 1992

Order No.: 0005127-012

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.577
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.1
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

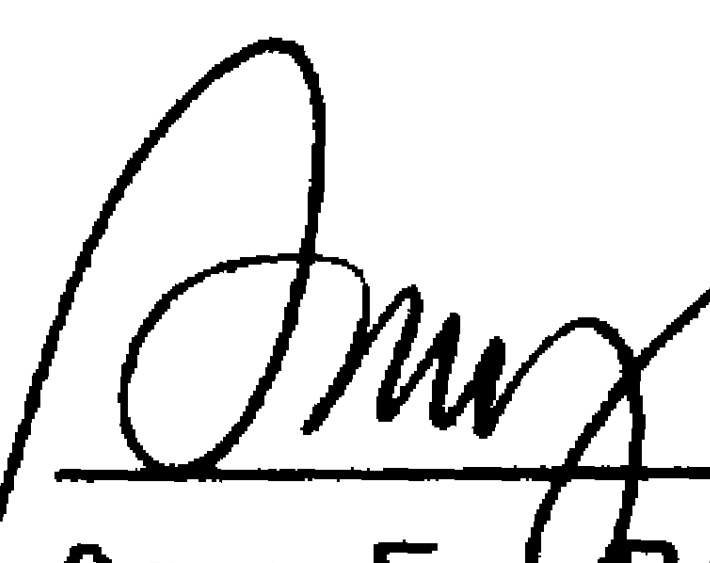
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	1	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.083
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200586

PVC RAILCAR ANALYSIS

Load Date: 1-24-92 Product: 5385 Car No.: 73412
 Time Logged In: 0300 Logged In By: D. E. Silo(s): 676, 677, 685
 Ship Date: 1/27 Order No: 0005127-012 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.15		.13		.16	
Contamination	BL	<u>5</u>	<u>4</u>		<u>5</u>		<u>6</u>	
	BR	<u>8</u>	<u>9</u>		<u>7</u>		<u>8</u>	
Bulk Density	.576		.579		.575		.579	
BD after Fluff								
Hard Particle 7 5	<u>24</u> <u>3.66</u>							
Viscosity	.927							
RVCM	.083							
40 Mesh/Glassies	0		0		1		0	

Coultter 0.0
Screen Analysis 2.0. 42.6 23.0 18.5 9.3 3.8 0.9

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.74</u>	<u>13.61</u>	<u>14.27</u>	<u>11.26</u>	<u>5.78</u>	<u>3.57</u>	<u>.92</u>
%	<u>0.0</u>	<u>1.5</u>	<u>27.2</u>	<u>28.5</u>	<u>22.3</u>	<u>11.6</u>	<u>7.1</u>	<u>1.8</u>

Drytime: 4.8 Static Flow: 0 / 8.1 Avg. Microns: 160.6

Color L: 99.76 a .02 b 1.75

Technician: MHYTE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: January 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41148

Ship Date: January 28, 1992

Order No.: 0005932-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.577
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	6.4
Pan		10.0 Max.	1.6
40 Mesh Glassies	ABR-6	5 Max. Avg.^	1

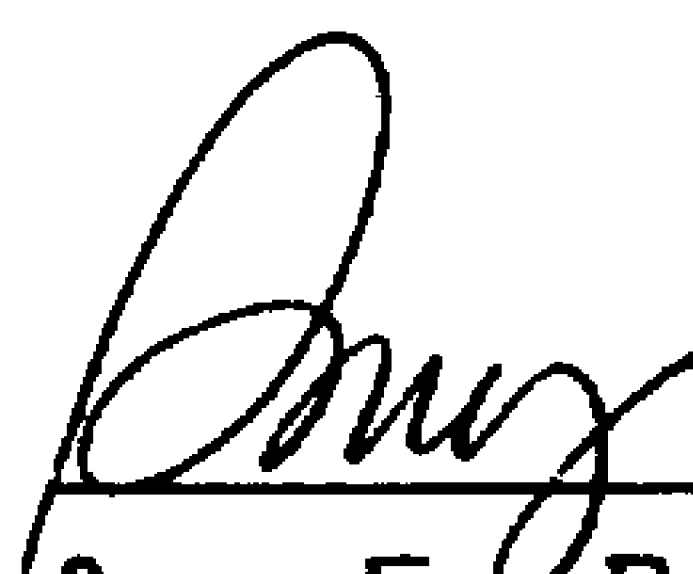
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
1	1	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.166
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200588

PVC RAILCAR ANALYSIS

Load Date: 1-24-92Product: 5385Car No.: 41148Time Logged In: 0300Logged In By: DFSilo(s): 676, 677, 685Ship Date: 1/28/92Order No: 0005932-003Customer: Genesep*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.11		.15		.17	
Contamination	BL		4		3		2	
	BR		6		5		8	
Bulk Density	.577		.580		.574		.576	
BD after Fluff								
Hard Particle 7	18							
5	2 CE							
Viscosity	.923							
RVCM	.146							
40 Mesh/Glassies	1		1		0		0	

Screen Analysis

Coulter	0.0	1.8	38.6	22.0	19.9	10.9	5.2	1.7
Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	.88	14.38	14.28	10.78	5.71	3.22	.78
%	0.0	1.8	28.8	28.6	21.4	11.4	6.4	1.6

Drytime: 5.0Static Flow: 0 / 8.1Avg. Microns: 163.1Color L: 99.20 a -0.4 b 1.65Technician: MMA TE

CERTIFICATE OF ANALYSIS

Date: February 4, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46472

Ship Date: January 29, 1992

Order No.: 0005127-013

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.585
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.6
Pan		10.0 Max.	1.6
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

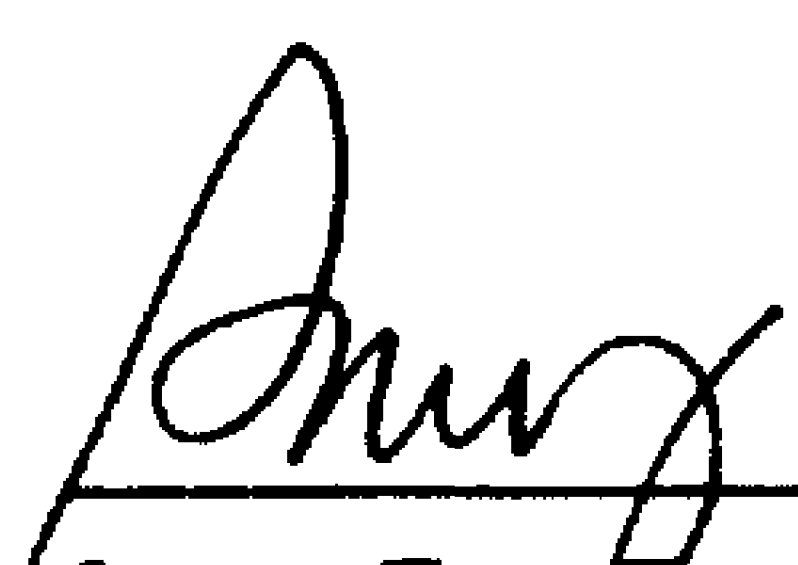
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.068
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200590

PVC RAILCAR ANALYSIS

Load Date: 1-27-92Product: 5385Car No.: 46472Time Logged In: 1100Logged In By: MJSilo(s): 676, 677Ship Date: 1/29/92Order No: 0005127-013Customer: Ames-Broad GroupNO MCHL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.05		.03		.02	
Contamination	BL		5		18		8	
	BR		12		20		21	
Bulk Density	.566		.582		.596		.596	
BD after Fluff	.562		.572		.583		.584	
Hard Particle 7 5	38 4 HA							
Viscosity	.932							
RVCM	.068							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.65	12.50	13.89	11.38	6.37	4.30	0.80
%	0.0	1.3	25.0	27.8	23.0	12.7	8.6	1.6

Drytime: 4.9Static Flow: 0 / 10.8Avg. Microns: 157.6Color L: 99.83 a 0.07 b 1.81Technician: P. G. + H. P. L.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: February 6, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: GACX 73393

Ship Date: February 3, 1992

Order No.: 0006603-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.03
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.550
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	4.4
Pan		10.0 Max.	1.2
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

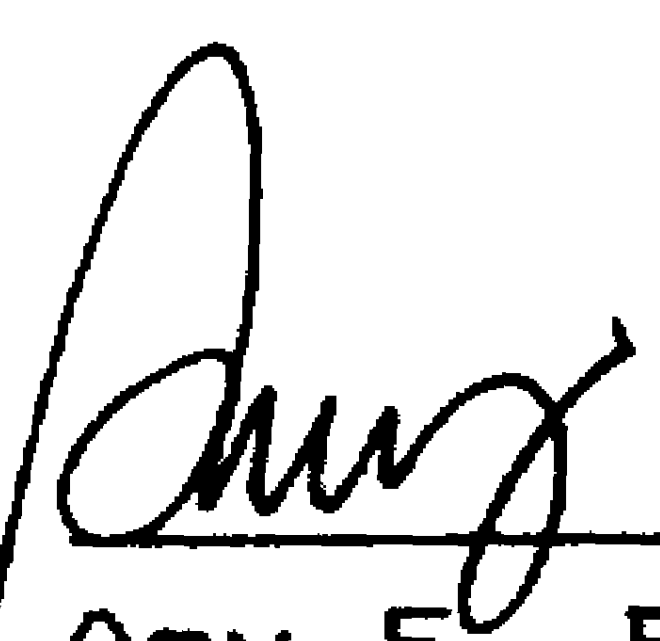
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	12
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.085
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200592

PVC RAILCAR ANALYSIS

Load Date: 2-1-92 Product: 5385 Car No.: 73393
 Time Logged In: 0300 Logged In By: D.T. Silo(s): 676679/685
 Ship Date: 2/3/92 Order No: 0006603-000 Customer: Gencorp

NO metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.01		.02		.03	
Contamination	BL BR	<u>4</u> <u>8</u>	—	<u>2</u> <u>11</u>	—	<u>4</u> <u>10</u>	—	<u>5</u> <u>8</u>
Bulk Density		<u>566</u>		<u>549</u>		<u>541</u>		<u>546</u>
BD after Fluff								
Hard Particle 7 5		<u>50</u> <u>1200</u>	—	—	—	—	—	—
Viscosity		<u>.920</u>						
RVCM		<u>.085</u>						
40 Mesh/Glassies		<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.37</u>	<u>19.02</u>	<u>14.06</u>	<u>8.71</u>	<u>4.07</u>	<u>2.19</u>	<u>.58</u>
% P	<u>0.0</u>	<u>2.7</u>	<u>38.0</u>	<u>28.1</u>	<u>17.5</u>	<u>8.1</u>	<u>4.4</u>	<u>1.2</u>

Drytime: 4.8 Static Flow: 0 110.5 Avg. Microns: 173.9

Color L: 100.20 a -0.02 b 2.20

Technician: M.T + R#

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: February 11, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41165

Ship Date: February 5, 1992

Order No.: 0006483-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.03
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.550
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	4.4
Pan		10.0 Max.	1.2
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

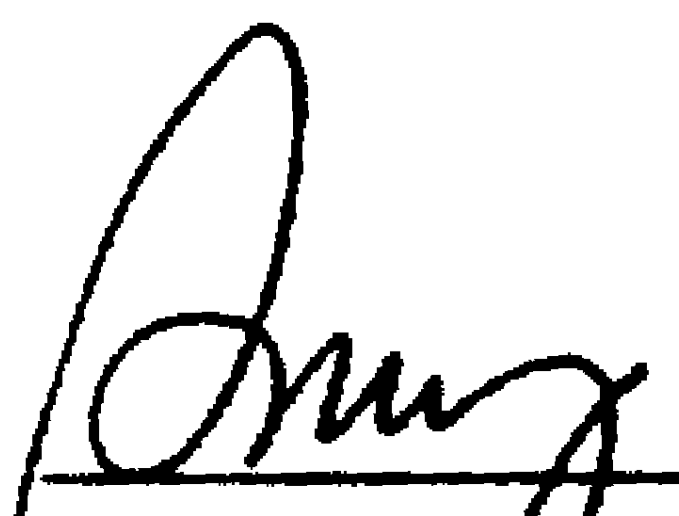
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	12
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.085
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200594

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 2-1-92Product: 5385Car No.: 41165Time Logged In: 0300Logged In By: DTSilo(s): 676677/85Ship Date: 2/5/92Order No: 0006483 000Customer: Encorp III's

Compartment	<u>A</u>		<u>CA</u> <u>MT</u>		<u>CB</u>		<u>B</u>	
Sample From	Bottom	<u>2-3-92</u>	Bottom		Bottom		Bottom	
Moisture %	<u>.72</u>	<u>.18</u>	<u>.10</u>		<u>.16</u>		<u>.06</u>	
Contamination	BL	<u>5</u>	<u>6</u>		<u>5</u>		<u>4</u>	
	BR	<u>8</u>	<u>9</u>		<u>6</u>		<u>5</u>	
Bulk Density	<u>.527</u>	<u>.582</u>	<u>.584</u>		<u>.592</u>		<u>.542</u>	
BD after Fluff	<u>.547</u>	<u>.578</u>	<u>.594</u>		<u>.587</u>		<u>.514</u>	
Hard Particle 7	<u>12</u>							
5	<u>6 R.P.</u>							
Viscosity	<u>.915</u>							
RVCM	<u>.052</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.27</u>	<u>16.34</u>	<u>14.71</u>	<u>9.86</u>	<u>4.73</u>	<u>2.51</u>	<u>0.61</u>
%	<u>0.0</u>	<u>2.5</u>	<u>32.7</u>	<u>29.4</u>	<u>19.7</u>	<u>9.5</u>	<u>5.0</u>	<u>1.2</u>

Drytime: —Static Flow: 0 18.9Avg. Microns: 169.1Color L: 99.72 a 0.07 b 2.08Technician: D.E. + d.e.

VAB.0001200595

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: February 11, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45794

Ship Date: February 7, 1992

Order No.: 0006483-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.566
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.1
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.9
Pan		10.0 Max.	2.2
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

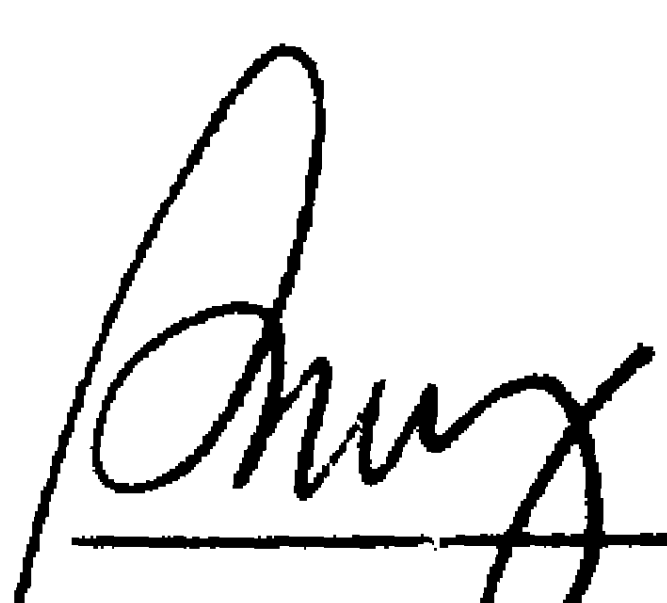
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.016
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200596

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 2-3-92Product: 5385Car No.: 45794Time Logged In: 1630Logged In By: DTSilo(s): 676+677Ship Date: 2/1/92Order No: 0006483-001Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.04		.01		.04	
Contamination	BL							
	BR							
	<u>6</u>	<u>—</u>	<u>7</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>4</u>	<u>—</u>
	<u>7</u>		<u>6</u>		<u>8</u>		<u>8</u>	
Bulk Density	<u>.574</u>		<u>.574</u>		<u>.571</u>		<u>.545</u>	
BD after Fluff								
Hard Particle 7	<u>11</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
5	<u>3</u>							
	<u>R.P.</u>							
Viscosity	<u>.915</u>							
RVCM	<u>.016</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.75</u>	<u>8.83</u>	<u>12.59</u>	<u>13.15</u>	<u>8.11</u>	<u>5.46</u>	<u>1.10</u>
%	<u>0.0</u>	<u>1.5</u>	<u>17.7</u>	<u>25.2</u>	<u>26.3</u>	<u>16.2</u>	<u>10.9</u>	<u>2.2</u>

Drytime: 5.1Static Flow: 0 1/40 Avg. Microns: 149.3Color L: 100.77 a 0.02 b 1.93Technician: MIT + TE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: February 14, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41136

Ship Date: February 10, 1992

Order No.: 0006483-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.07
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	11.4
Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

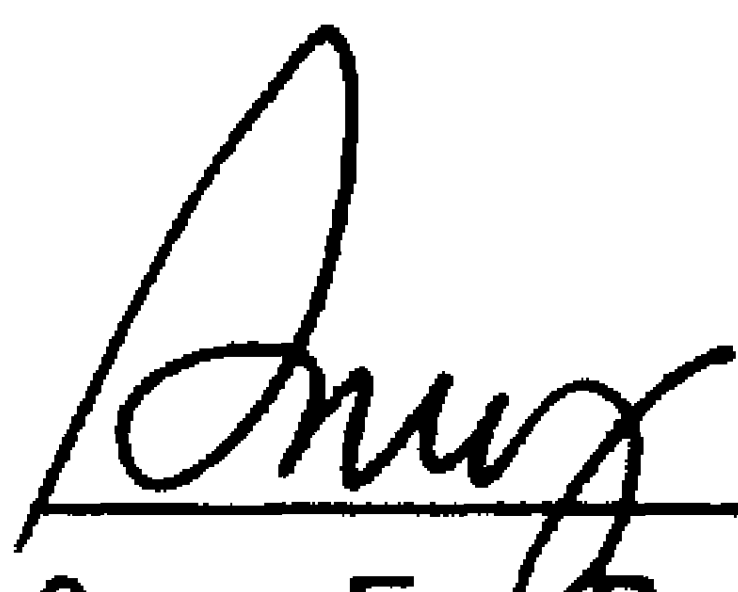
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	13
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.056
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200598

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 2-4-92Product: 5385Car No.: 41136Time Logged In: 0502Logged In By: M.T.Silo(s): 626-677Ship Date: 2/10/92Order No: 0006483-002Customer: GencorpNo metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.03		.03		.03	
Contamination	BL							
	BR							
Bulk Density	.589		.573		.566		.570	
BD after Fluff								
Hard Particle 7	32							
5	13 M.B.							
Viscosity	,924							
RVCM	.056							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.64</u>	<u>11.40</u>	<u>12.75</u>	<u>11.13</u>	<u>7.10</u>	<u>5.72</u>	<u>1.35</u>
%	<u>0.0</u>	<u>1.3</u>	<u>22.8</u>	<u>25.5</u>	<u>22.1</u>	<u>14.2</u>	<u>11.4</u>	<u>2.7</u>

Drytime: 5.0Static Flow: 0 / 10.3Avg. Microns: 152.6Color L: 99.40 a 0.57 b 2.00Technician: D.T. & H.D.L.

VAB.0001200599

CERTIFICATE OF ANALYSIS

Date: February 14, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44461

Ship Date: February 12, 1992

Order No.: 0006483-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	4.8
Pan		10.0 Max.	1.4
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

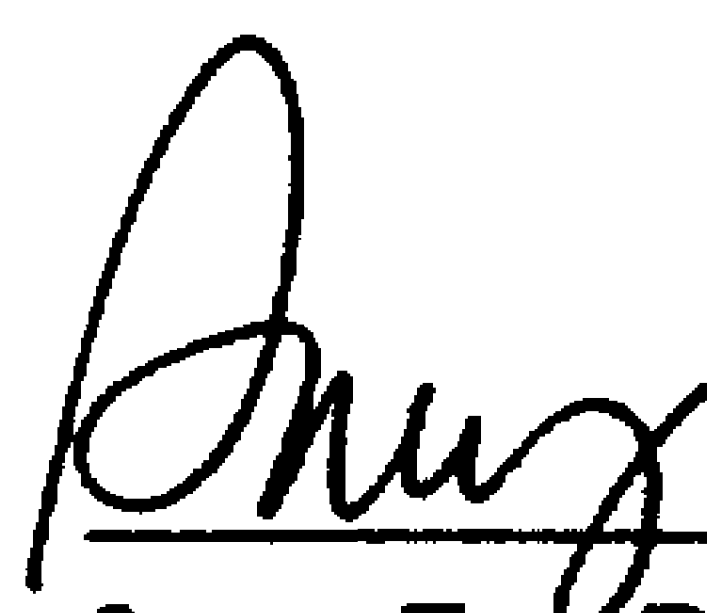
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	6
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.015
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200600

PVC RAILCAR ANALYSIS

Load Date: 2-8-92Product: 5385Car No.: 44461Time Logged In: 1630Logged In By: CoSilo(s): 676, 677Ship Date: 2/12/92 Order No: 0006483-003 Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.04		.03		.05	
Contamination	BL		2		4		2	
	BR		6		7		6	
Bulk Density	.582		.578		.583		.579	
BD after Fluff								
Hard Particle 7	36							
5	66ail							
Viscosity	.921							
RVCM	.015							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.28</u>	<u>20.98</u>	<u>11.99</u>	<u>7.59</u>	<u>3.96</u>	<u>2.39</u>	<u>0.72</u>
%	<u>0.0</u>	<u>4.6</u>	<u>42.0</u>	<u>24.0</u>	<u>15.3</u>	<u>7.9</u>	<u>4.8</u>	<u>1.4</u>

Drytime: 5.0 Static Flow: 0 19.8 Avg. Microns: 179.3Color L: 99.93 a -1.06 b 2.13Technician: Co + ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

VISTA

Date: February 19, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45839

Ship Date: February 17, 1992

Order No.: 0006483-005

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.12
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.0
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

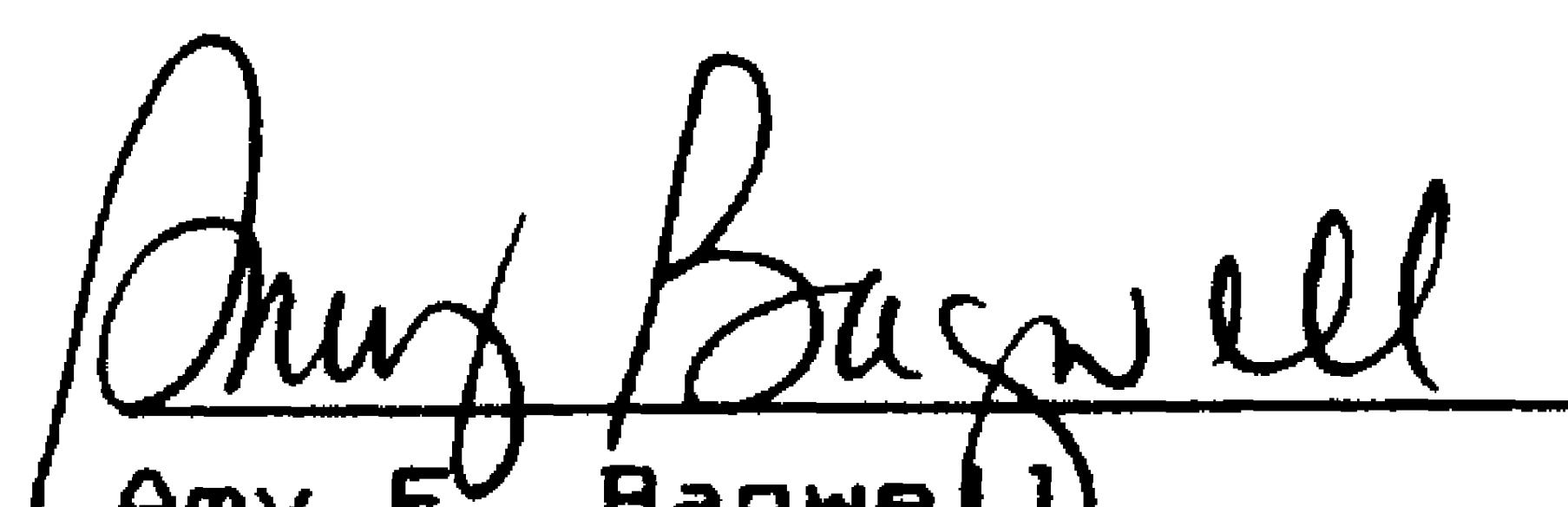
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.736
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200602

PVC RAILCAR ANALYSIS

Load Date: 2-13-92 Product: 5385 Car No.: 45839
 Time Logged In: 2400 Logged In By: ES Silo(s): 676+677
 Ship Date: 2/17/92 Order No: 0006483-005 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.09		.08		.12	
Contamination	BL BR	<u>3</u> <u>5</u>	—	<u>3</u> <u>8</u>	—	<u>2</u> <u>7</u>	—	<u>4</u> <u>8</u>
Bulk Density	.574		.577		.576		.576	
BD after Fluff								
Hard Particle 7 5	<u>13</u> <u>23's</u>	—	—	—	—	—	—	—
Viscosity	.927							
RVCM	.736							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.28</u>	<u>13.29</u>	<u>14.41</u>	<u>10.95</u>	<u>5.67</u>	<u>3.48</u>	<u>.92</u>
%	<u>0.0</u>	<u>2.6</u>	<u>26.6</u>	<u>28.8</u>	<u>21.9</u>	<u>11.3</u>	<u>7.0</u>	<u>1.8</u>

Drytime: 4.9 Static Flow: 0 / 10.4 Avg. Microns: 162.5

Color L: 108.14 a .04 b 1.80

Technician: B & ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

VISTA

Date: February 19, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41180

Ship Date: February 14, 1992

Order No.: 0006483-004

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.554
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.1
Pan		10.0 Max.	3.1
40 Mesh Glassies	ABR-6	5 Max. Avg. ^ 0	

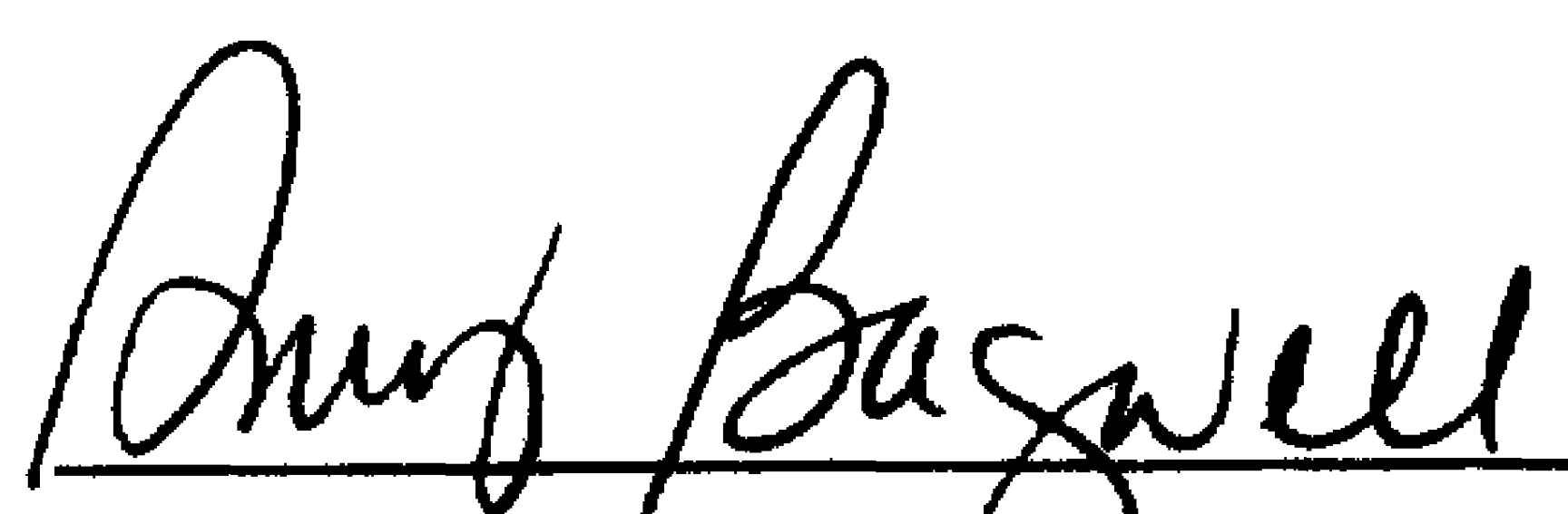
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	2	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	9
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.001
Inherent Viscosity	ABR-10	.90 to .95	0.91

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200604

PVC RAILCAR ANALYSIS

Load Date: 2-10-92Product: 5385Car No.: 41180Time Logged In: 1800Logged In By: MMSilo(s): 676, 677Ship Date: 2/14Order No: 0006483-004Customer: GencorpNo metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.02		.02		.02	
Contamination	BL		8		6		19	
	BR		8		10		11	
Bulk Density	.576		.551		.545		.545	
BD after Fluff								
Hard Particle 7 5	<u>50</u> 9 R.P.							
Viscosity	.910							
RVCM	.001							
40 Mesh/Glassies	0		0		2		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.48</u>	<u>12.03</u>	<u>14.13</u>	<u>11.58</u>	<u>6.45</u>	<u>4.03</u>	<u>1.56</u>
%	<u>0.0</u>	<u>1.0</u>	<u>24.1</u>	<u>28.7</u>	<u>22.5</u>	<u>12.9</u>	<u>8.1</u>	<u>3.1</u>

Drytime: 5.0Static Flow: 0, 148Avg. Microns: 155.1Color L: 100.15 a -0.04 b 1.89Technician: P.T. + HPL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: February 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45910

Ship Date: February 19, 1992

Order No.: 0006483-006

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.08
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.562
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	12.4
Pan		10.0 Max.	3.0
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

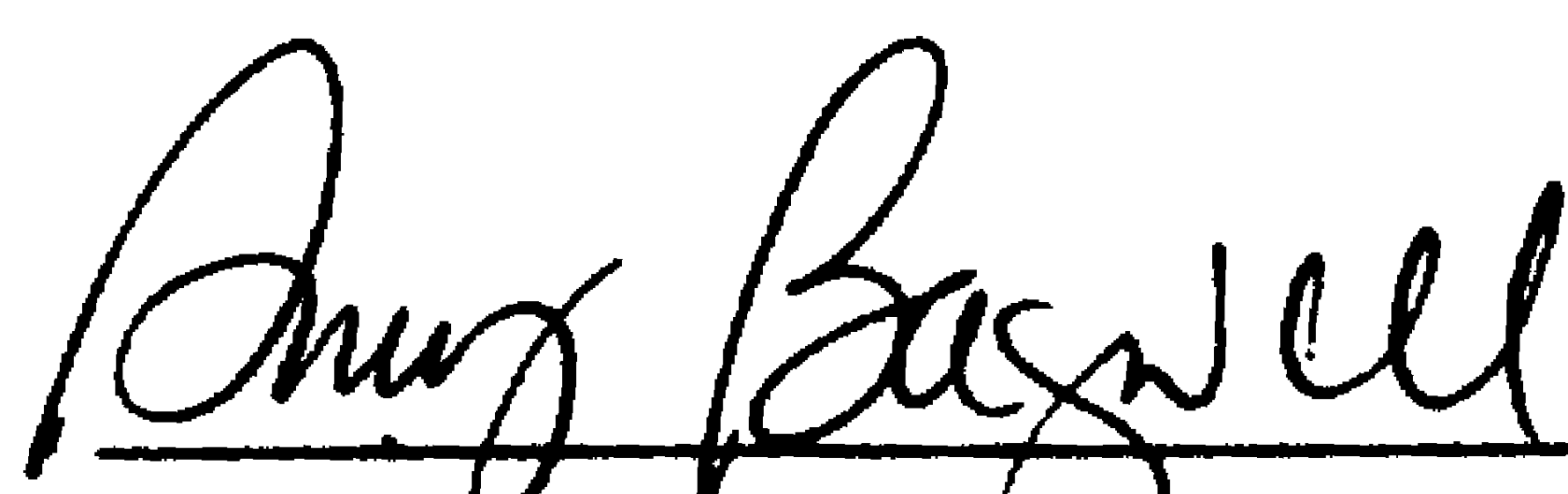
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.012
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200606

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 2-16-92Product: 5385Car No.: 45910Time Logged In: 0200Logged In By: MHSilo(s): 676, 677Ship Date: 2/19/92 Order No: 0006483-006 Customer: GencorpNo Mepl

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.08		.04		.04	
Contamination	BL	<u>15</u>	—	<u>6</u>	—	<u>14</u>	—	<u>6</u>
	BR	<u>15</u>	—	<u>18</u>	—	<u>4</u>	—	<u>6</u>
Bulk Density	<u>570</u>		<u>580</u>		<u>556</u>		<u>540</u>	
BD after Fluff								
Hard Particle 7	<u>12</u>	—	—	—	—	—	—	—
5	<u>352</u>							
Viscosity	<u>935</u>							
RVCN	<u>012</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.58</u>	<u>8.48</u>	<u>12.23</u>	<u>12.64</u>	<u>8.33</u>	<u>6.21</u>	<u>1.48</u>
%	<u>0.0</u>	<u>1.2</u>	<u>17.0</u>	<u>24.5</u>	<u>25.8</u>	<u>16.7</u>	<u>12.4</u>	<u>3.0</u>

Drytime: 5.0 Static Flow: 0 113.0 Avg. Microns: 146.3Color L: 100.50 a -0.01 b 1.83Technician: D.L. + HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: *Feb. 24, 1992*

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: *04774*

Attention: Plant Chemist

Trailer No.: *T-480327*

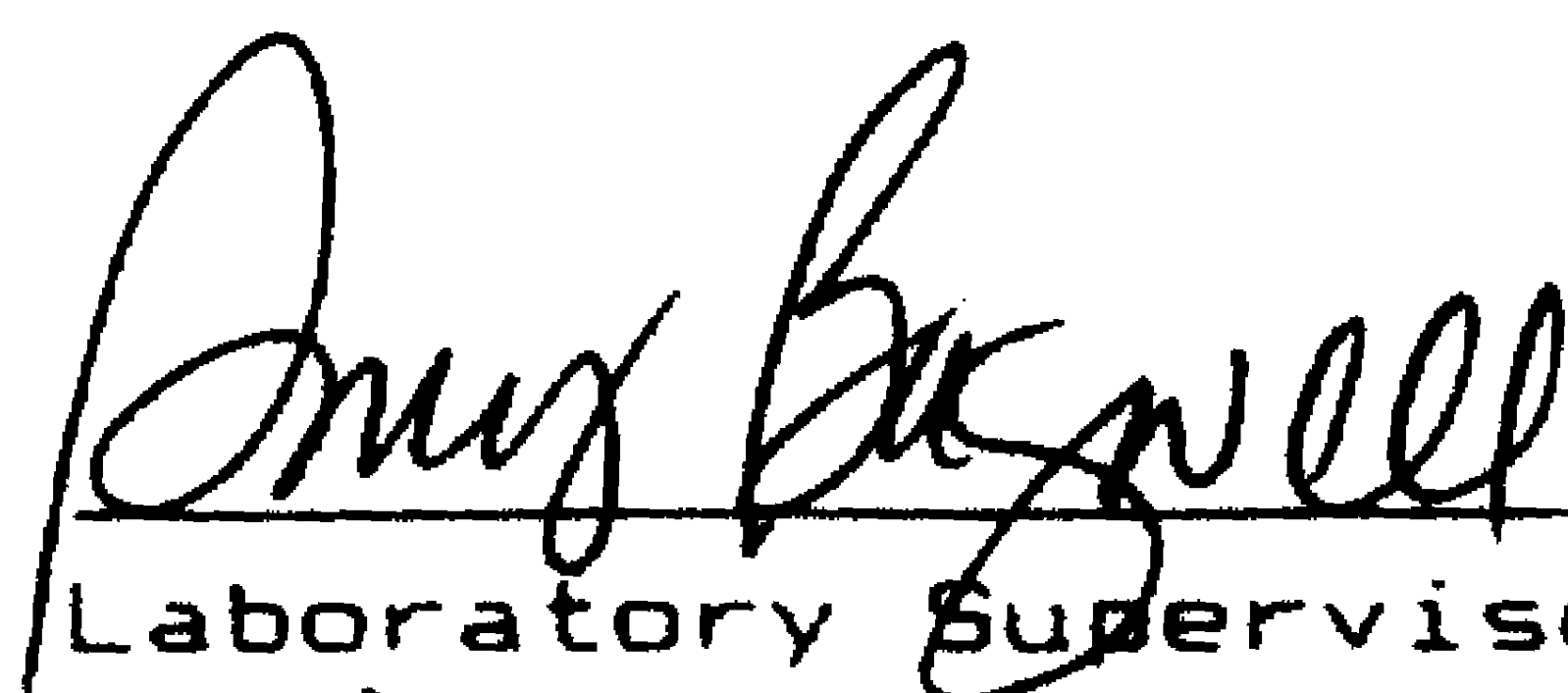
Ship Date: *Feb. 20, 1992*

Order No.: *0007276-000*

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.14</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.587</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.1</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>11.5</u>
Pan		10.0 Max.	<u>2.9</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>6</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

Bag Blend

Regulars or Bags

Page ____ of ____ pages

Vinyl Sample Log

Date 8-24-91
Product Type 5385

Blend Number	Time By	To	Sample No.	Moist.	Particle Size Distribution								HP Screen Set	Bulk G./C.C.	Dry Time	Cont. Black Green	Static Flow	L & N Values			CPA Glassy	Visc.
					40	60	80	100	120	140	200	Pan						L	A	B		
24774	1600 JPS		comp 1410										40/60 GE	.587				20	50	80		
					0.00	0.45	9.75	13.52	11.79	7.26	5.77	1.47	P									
					0.0	0.9	19.5	27.0	23.7	14.5	11.5	2.9		.578	5.1		8.2	100.83	0.01	1.27		
			1	.14												0/6		20	50	80		.927
			4	.12												1/5		20	50	80		.923
			7	.11												0/8		Rem-.002				
			10	.08												0/7						
			13	.08												1/6		20	50	80		
			16	.06												1/3		20	50	80		
			19	.06												0/6						

Altman 2488

YAB.0001200609

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: February 26, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46575

Ship Date: February 21, 1992

Order No.: 0006483-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.19
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.578
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	5.4
Pan		10.0 Max.	1.3
40 Mesh Glassies	ABR-6	5 Max. Avg.^	1

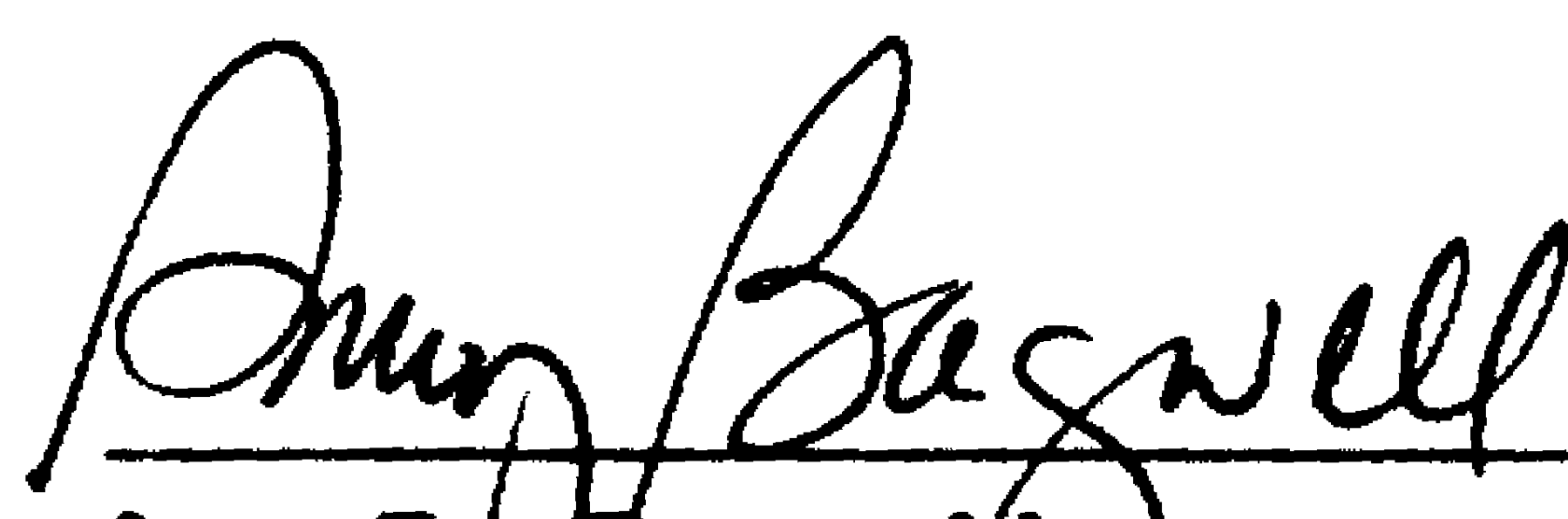
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
2	0	2	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.045
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200610

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 2-20-92Product: 5385Car No.: 46575Time Logged In: 1330Logged In By: CoSilo(s): 676, 677Ship Date: 2/21/92Order No: 0006483-007Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.19		.14		.16	
Contamination	BL		1		2		1	
	BR	5	6		4		3	
Bulk Density	.581		.572		.582		.576	
BD after Fluff								
Hard Particle	26 475							
Viscosity	.937							
RVCN	.045							
40 Mesh/Glassies	2		0		2		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.14</u>	<u>16.16</u>	<u>14.77</u>	<u>9.77</u>	<u>4.69</u>	<u>2.12</u>	<u>0.66</u>
%	<u>0.0</u>	<u>2.3</u>	<u>32.3</u>	<u>29.5</u>	<u>19.8</u>	<u>9.4</u>	<u>5.4</u>	<u>1.3</u>

Drytime: 5.0 Static Flow: 0, 8.8 Avg. Microns: 168.2Color L: 100.54 a - .12 b 1.94Technician: Co & ES

VAB.0001200611

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: February 26, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46497

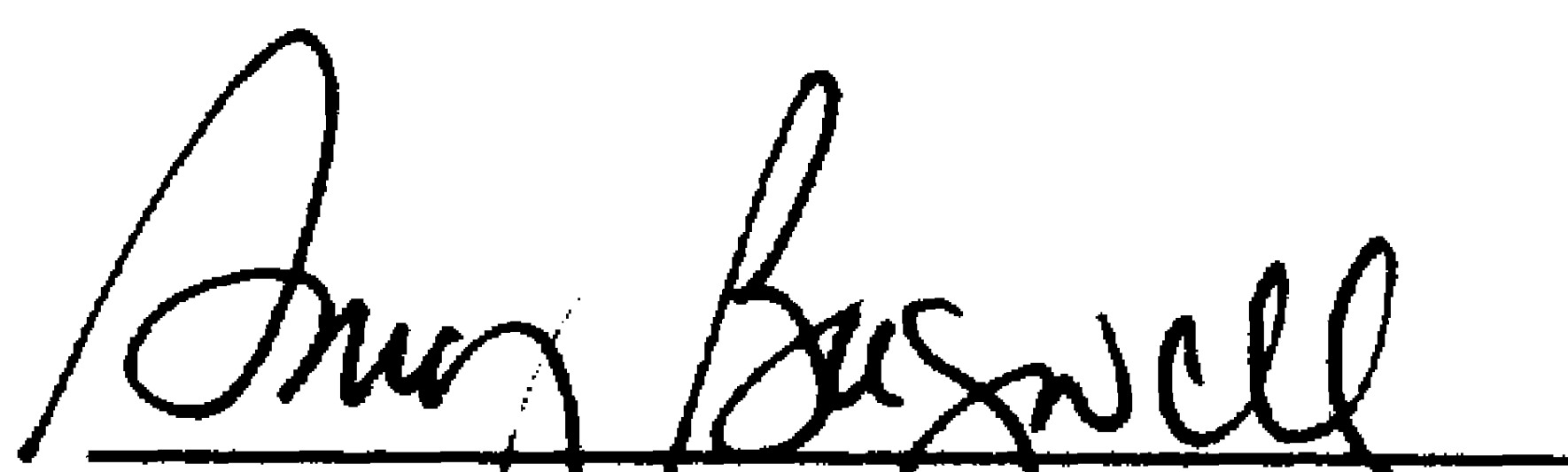
Ship Date: February 24, 1992

Order No.: 0006483-008

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.06
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.558
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.4
Pan		10.0 Max.	1.9
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0
(By Compartment)			
Glassies average of 5 for railcar; 10 max. in a single compartment.			
Hard Particles, 7 Mins.	ABR-12	25 Max.	5
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.076
Inherent Viscosity	ABR-10	.90 to .95	0.93
Polyvinyl Chloride, Virgin Resin, Not Reprocessed.			

A	CA	CB	B
0	1	0	0


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200612

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 2-21-92Product: 5385Car No.: 46497Time Logged In: 0200Logged In By: MMSilo(s): 676, 677Ship Date: 2/24Order No: 0006483008Customer: Bencorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.05		.06		.02	
Contamination	BL <u>3</u>	—	2	—	3	—	2	—
	BR <u>6</u>		8		5		7	
Bulk Density	.571		.552		.570		.537	
BD after Fluff								
Hard Particle $\frac{7}{5}$	<u>36</u>	—	—	—	—	—	—	—
	<u>5 coal</u>							
Viscosity	<u>933</u>							
RVCM	.076							
40 Mesh/Glassies	0		1		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.21</u>	<u>10.44</u>	<u>15.13</u>	<u>12.33</u>	<u>6.80</u>	<u>4.20</u>	<u>.95</u>
%	<u>0.0</u>	<u>.4</u>	<u>20.9</u>	<u>30.3</u>	<u>24.5</u>	<u>13.6</u>	<u>8.4</u>	<u>1.9</u>

Drytime: 4.9Static Flow: 0 / 11.2 Avg. Microns: 162.9Color L: 100.24 a -.12 b 2.14Technician: G + ES

VAB.0001200613

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 2, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45719

Ship Date: February 27, 1992

Order No.: 0007361-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.04
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.569
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	9.2
----------	--	-----	-----

Pan		10.0 Max.	1.8
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg. ^	2
------------------	-------	---------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

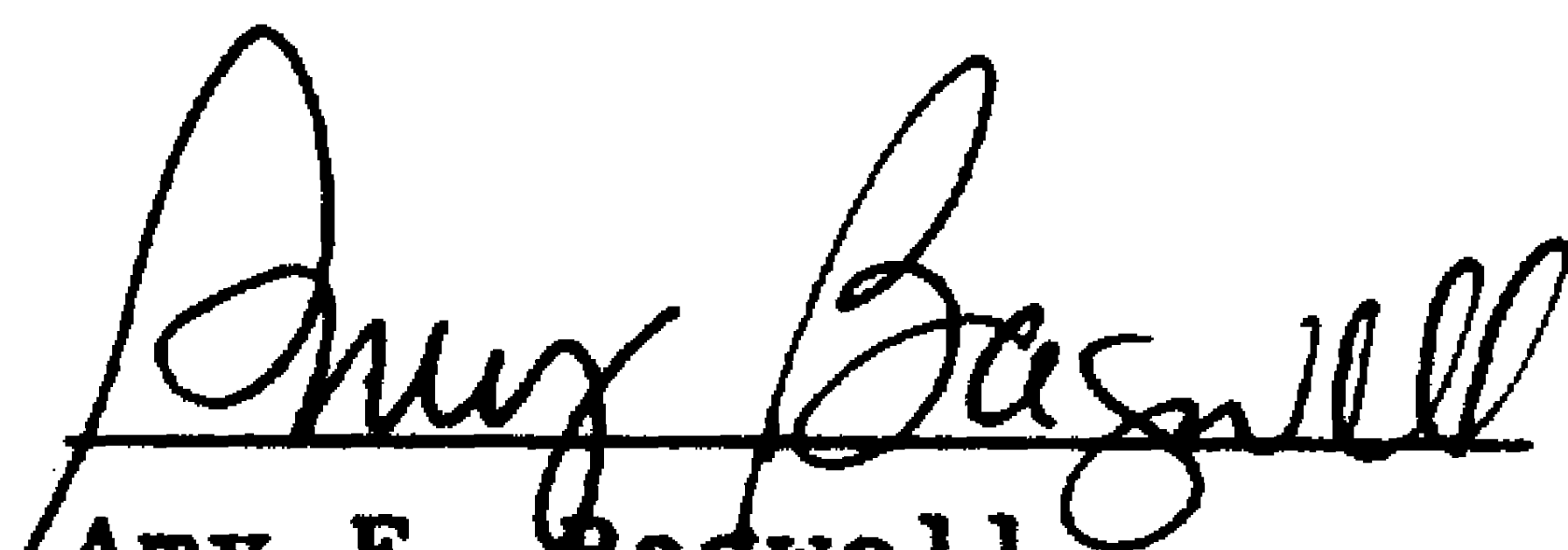
A	CA	CB	B
0	0	4	3

Hard Particles, 7 Mins.	ABR-12	25 Max.	6
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.095
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.93
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200614

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 2-27-92 Product: 5385 Car No.: 45719
 Time Logged In: 0500 Logged In By: CB Silo(s): 676, 677, 685
 Ship Date: 2/27/92 Order No: 0007361-000 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.01		.04	
Contamination	BL BR	<u>4</u> <u>12</u>	—	<u>2</u> <u>10</u>	—	<u>7</u> <u>11</u>	—	<u>3</u> <u>14</u>
Bulk Density		.544		.575		.580		.577
BD after Fluff								
Hard Particle 5 7		<u>24</u> <u>6</u>	—	—	—	—	—	—
Viscosity		.932						
RVCM		.095						
40 Mesh/Glassies		0		0		4		3

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.68</u>	<u>13.06</u>	<u>13.24</u>	<u>11.05</u>	<u>6.33</u>	<u>4.59</u>	<u>.92</u>
% P	<u>0.0</u>	<u>1.4</u>	<u>26.1</u>	<u>26.5</u>	<u>22.3</u>	<u>12.7</u>	<u>9.2</u>	<u>1.8</u>

Drytime: 4.8 Static Flow: 0.19.9 Avg. Microns: 157.8

Color L: 100.22 a -0.07 b 1.91

Technician: M.T. & L.H.

VAB.0001200615

CERTIFICATE OF ANALYSIS

Date: March 2, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46570

Ship Date: February 26, 1992

Order No.: 0006483-009

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.20
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.573
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.9
Pan		10.0 Max.	1.9

40 Mesh Glassies	ABR-6	5 Max. Avg.^	0
------------------	-------	--------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

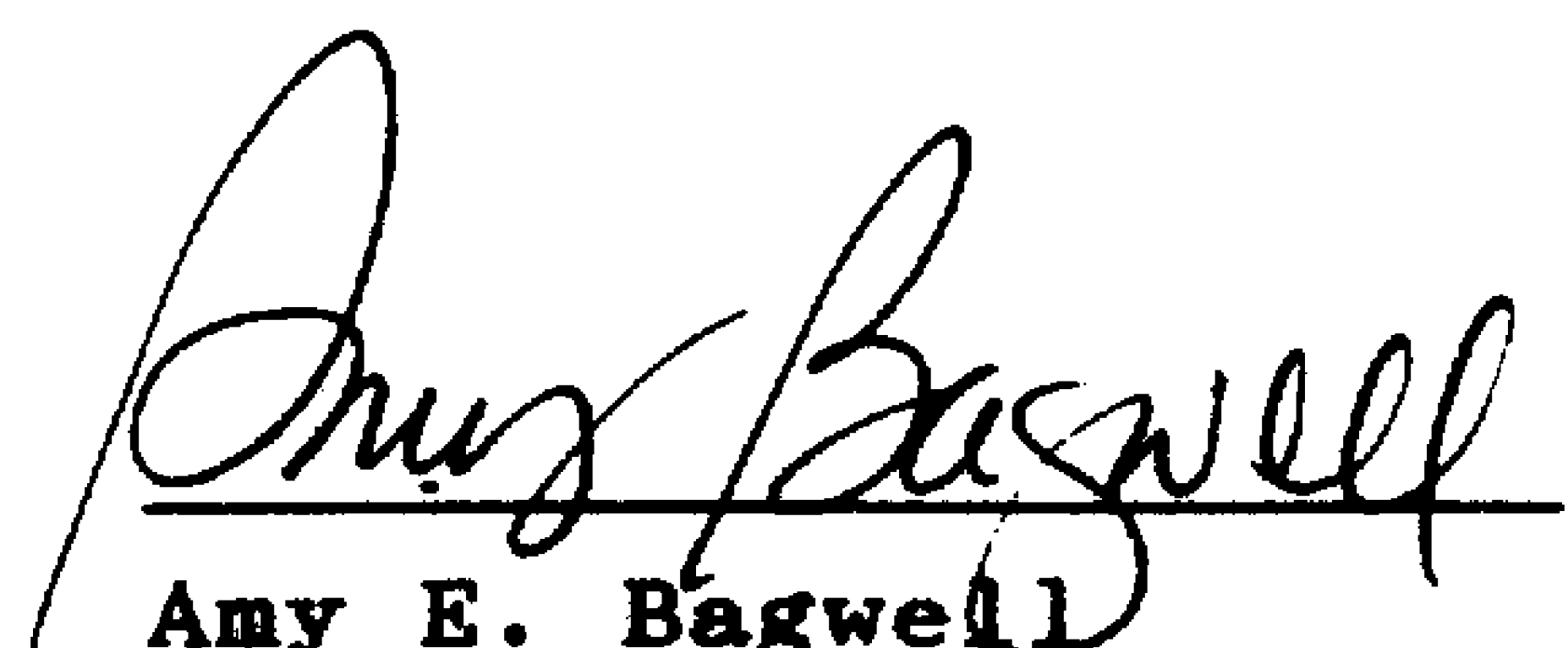
A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	5
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.088
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.94
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200616

Vista Polymers

Highway 25

Aberdeen, MS 39730 A

PVC RAILCAR ANALYSIS

Load Date: 2-25-92Product: 5385Car No.: 76570Time Logged In: 1900Logged In By: MSSilo(s): 677, 685Ship Date: 2/26/92Order No: 0001443-009Customer: Gencorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.20		.18		.12		.15	
Contamination	BL							
	BR							
Bulk Density	.567		.565		.577		.581	
BD after Fluff								
Hard Particle 7	<u>24</u>							
5	<u>5MB</u>							
Viscosity	.941							
RVCM	.088							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.76</u>	<u>14.40</u>	<u>13.80</u>	<u>10.37</u>	<u>5.75</u>	<u>3.94</u>	<u>.96</u>
%	<u>0.0</u>	<u>1.5</u>	<u>28.8</u>	<u>27.6</u>	<u>20.8</u>	<u>11.5</u>	<u>7.9</u>	<u>1.9</u>

Drytime: 4.9Static Flow: 0, 10.8

Avg. Microns: _____

Color L: 100.49 a .03 b 1.85Technician: Q + MB

VAB.0001200617

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 5, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 43053

Ship Date: February 29, 1992

Order No.: 0007361-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.17
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.573
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	12.4
Pan		10.0 Max.	3.2

40 Mesh Glassies	ABR-6	5 Max. Avg.^	2
------------------	-------	--------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

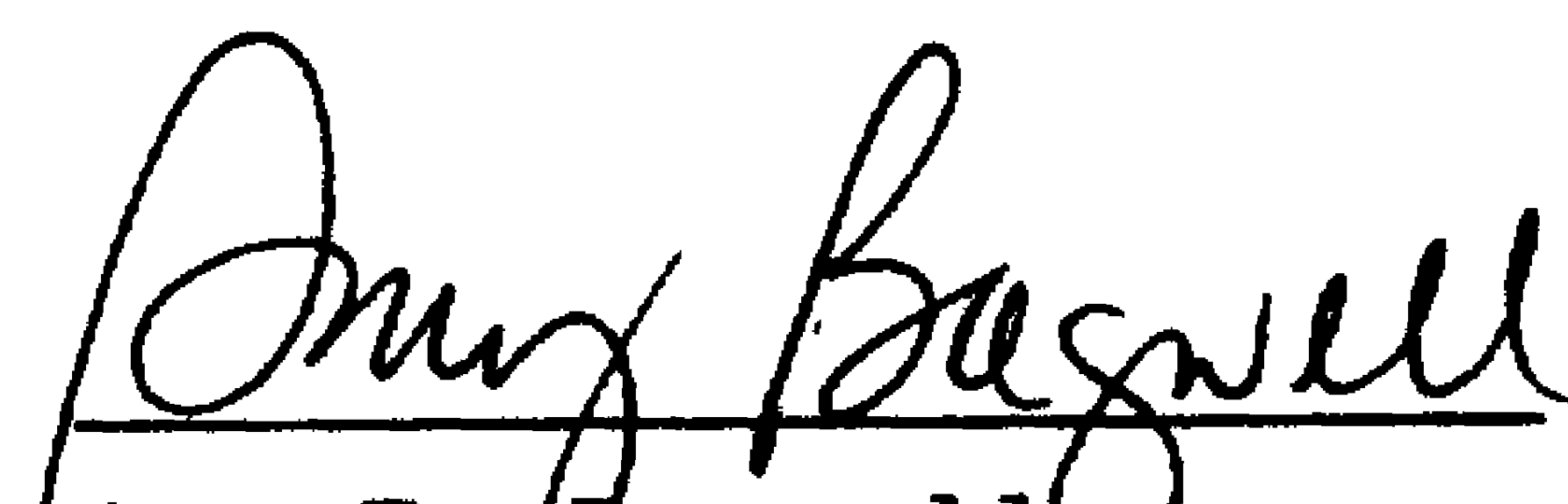
A	CA	CB	B
6	1	1	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.196
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.94
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200618

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 2-28-92Product: 5385Car No.: 43053Time Logged In: 0400Logged In By: CoSilo(s): 676, 677, 685Ship Date: 2/29 Order No: 0007361-001 Customer: GenCorp
Per mt 2-29

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.17		.11		.15		.14	
Contamination	BL <u>2</u>	—	4	—	3	—	4	—
	BR <u>38</u>		3		6		5	
Bulk Density	.573		.577		.571		.573	
BD after Fluff								
Hard Particle 5 7	<u>18</u> 3HA	—	—	—	—	—	—	—
Viscosity	.937							
RVCM	.196							
40 Mesh/Glassies	6		1		1		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.07</u>	<u>12.47</u>	<u>11.30</u>	<u>10.13</u>	<u>7.35</u>	<u>6.20</u>	<u>1.58</u>
%	<u>0.0</u>	<u>2.1</u>	<u>24.9</u>	<u>22.6</u>	<u>20.1</u>	<u>14.7</u>	<u>12.4</u>	<u>3.2</u>

Drytime: 4.9 Static Flow: 0 / 8.0 Avg. Microns: 153.9Color L: 100.21 a -.06 b 1.85Technician: MA + TE

VAB.0001200619

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 5, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45839

Ship Date: March 2, 1992

Order No.: 0007891-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.13
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.583
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	6.9
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	2

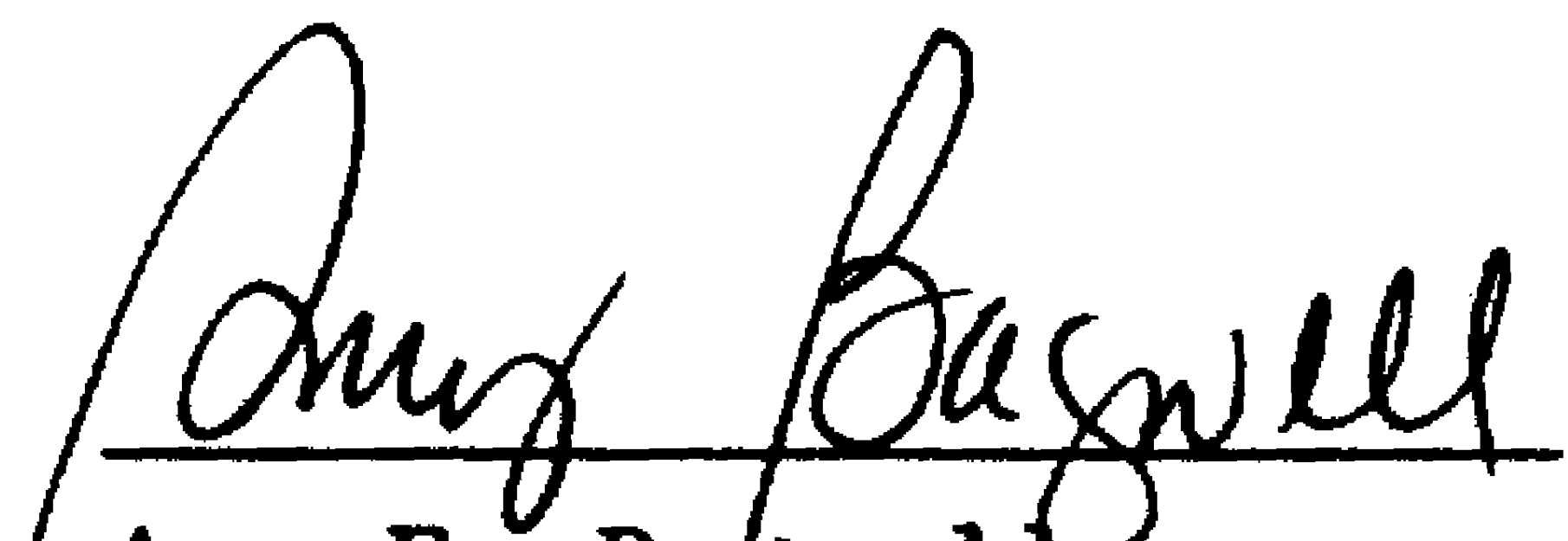
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
1	2	2	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	10
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.117
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200620

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-1-92Product: 5385Car No.: ~~45839~~ 45839Time Logged In: 1700Logged In By: MTSilo(s): 676-677-685Ship Date: 3/2/92Order No: 7891-000Customer: Gencorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.12		.10		.12	
Contamination	BL							
	BR							
	<u>6</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>6</u>	<u>—</u>	<u>4</u>	<u>—</u>
	<u>15</u>		<u>18</u>		<u>25</u>		<u>15</u>	
Bulk Density	.584		.588		.580		.579	
BD after Fluff								
Hard Particle 5	<u>30</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>10 HA</u>							
Viscosity	.930							
RVCM	.117							
40 Mesh/Glassies	<u>1</u>		<u>2</u>		<u>2</u>		<u>1</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>1.00</u>	<u>1.34</u>	<u>18.06</u>	<u>12.47</u>	<u>8.75</u>	<u>4.98</u>	<u>3.44</u>	<u>.92</u>
%	<u>0.0</u>	<u>2.7</u>	<u>36.1</u>	<u>24.9</u>	<u>17.6</u>	<u>10.0</u>	<u>6.9</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0 / 8.0Avg. Microns: 169.4Color L: 99.62 a .46 b 2.48Technician: MATE

VAB.0001200621

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 5, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41137

Ship Date: March 3, 1992

Order No.: 0007891-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.12
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.588
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	6.4
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	1

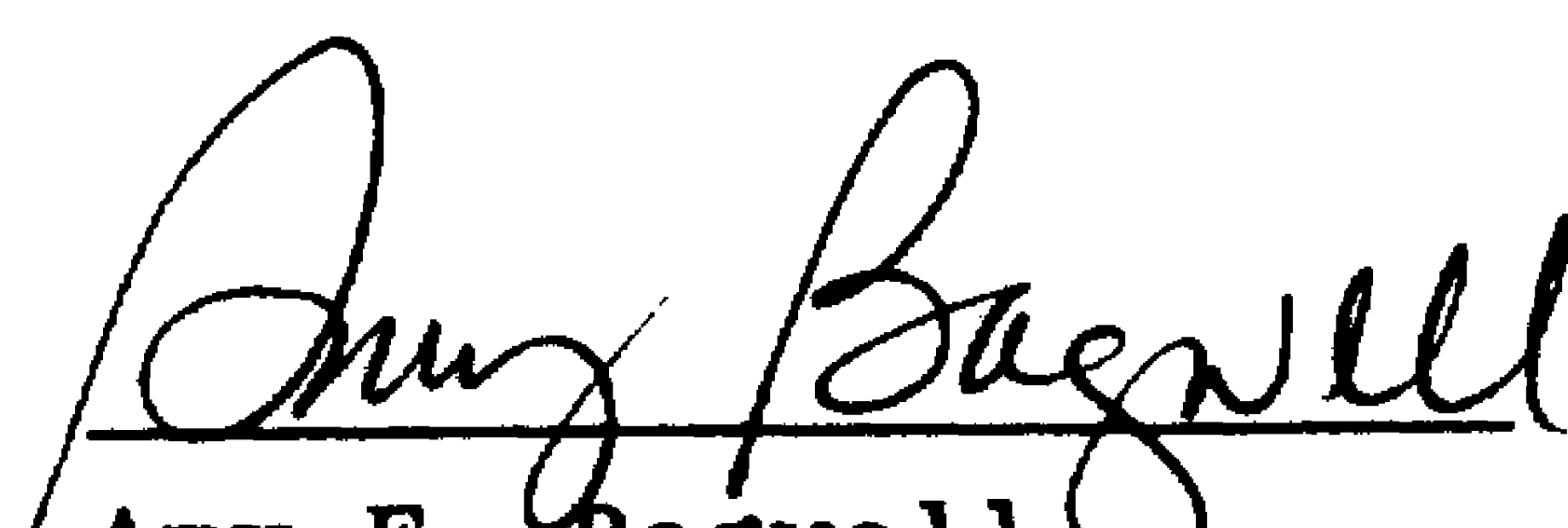
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
4	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	11
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.208
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200622

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-2-92 Product: 5385 Car No.: 41137
 Time Logged In: 0J30 Logged In By: MS Silo(s): 676, 677
 Ship Date: 3/3/92 Order No: 000 7891-001 Customer: Cencorp

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.12		.11		.05	
Contamination	BL <u>3</u>	—	4	—	6	—	6	—
	BR <u>12</u>		25		30		13	
Bulk Density	.583		.582		.593		.595	
BD after Fluff								
Hard Particle 5	<u>23</u>	—	—	—	—	—	—	—
7	<u>11 RP</u>							
Viscosity	.922							
RVCM	.208							
40 Mesh/Glassies	4		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.27</u>	<u>18.50</u>	<u>12.910</u>	<u>8.51</u>	<u>4.60</u>	<u>3.20</u>	<u>0.90</u>
%	<u>0.0</u>	<u>2.5</u>	<u>37.0</u>	<u>25.9</u>	<u>17.2</u>	<u>9.2</u>	<u>6.4</u>	<u>1.8</u>

Drytime: 4.8 Static Flow: 0, 7.8 Avg. Microns: 170.3

Color L: 10.51 a -0.07 b 1.74

Technician: P.T. HPL

VAB.0001200623

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 9, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41136

Ship Date: March 5, 1992

Order No.: 0008026-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.582
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	6.5
Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	2

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
2	2	2	2

Hard Particles, 7 Mins.	ABR-12	25 Max.	5
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.118
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H.D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200624

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-2-92Product: 5385Car No.: ACFX 41136Time Logged In: 0630Logged In By: msSilo(s): 676-677-685Ship Date: 3/5/92 Order No: 0608026-001 Customer: GeneCorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.03		.03		.04	
Contamination	BL	3	2		3		4	
	BR	29	28		18		8	
Bulk Density	.574		.586		.584		.584	
BD after Fluff								
Hard Particle 5	13							
7	5 p.p.							
Viscosity	.921							
RVCM	.118							
40 Mesh/Glassies	2		2		2		2	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.93</u>	<u>17.48</u>	<u>11.87</u>	<u>8.48</u>	<u>4.98</u>	<u>3.27</u>	<u>1.05</u>
%	<u>0.0</u>	<u>5.9</u>	<u>35.0</u>	<u>23.7</u>	<u>16.8</u>	<u>10.0</u>	<u>6.5</u>	<u>2.1</u>

Drytime: 5.0 Static Flow: 0.9.1 Avg. Microns: 174.4Color L: 100.38 a -0.04 b 1.97Technician: D. F. H. D. L.

VAB.0001200625

CERTIFICATE OF ANALYSIS

Date: March 9, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41174

Ship Date: March 6, 1992

Order No.: 0008026-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.584
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.0
Pan		10.0 Max.	1.9
40 Mesh Glassies	ABR-6	5 Max. Avg.^	1

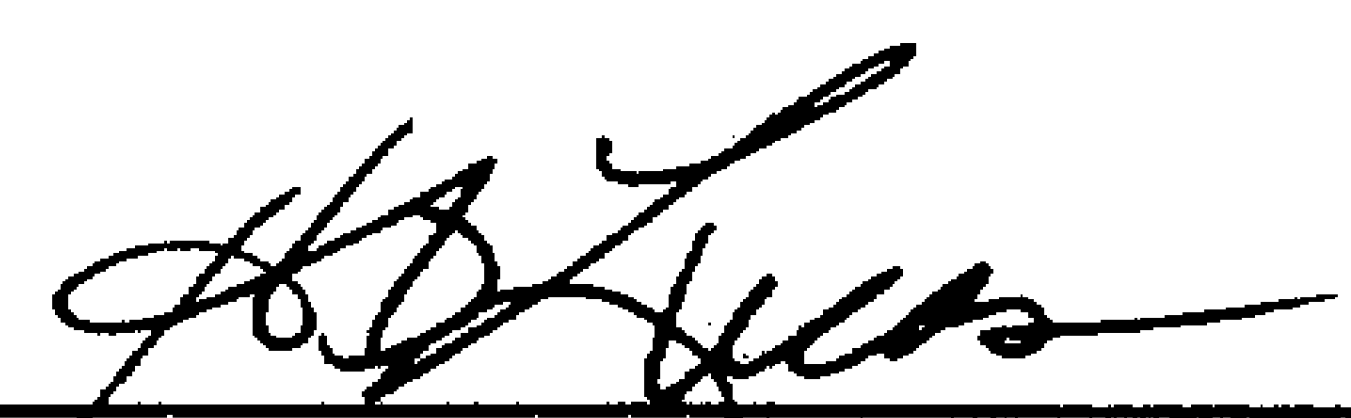
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
1	1	0	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.084
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H.D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200626

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-2-92Product: 5385Car No.: 41174Time Logged In: 1700Logged In By: P.T.Silo(s): 676, 677, 685Ship Date: 3/6/92Order No: 000826-002Customer: Genco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.09		.12		.14	
Contamination	BL							
	BR							
	5	—	6	—	4	⊙	5	—
	12		15		9		12	
Bulk Density	.583		.585		.581		.585	
BD after Fluff								
Hard Particle 5	15	—	—	—	—	—	—	—
7	3 ms							
Viscosity	.924							
RVCM	.084							
40 Mesh/Glassies	1		1		0		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.20</u>	<u>1.20</u>	<u>18.03</u>	<u>12.68</u>	<u>8.62</u>	<u>4.96</u>	<u>3.50</u>	<u>.93</u>
%	<u>0.0</u>	<u>2.4</u>	<u>36.1</u>	<u>25.4</u>	<u>17.3</u>	<u>9.9</u>	<u>7.0</u>	<u>1.9</u>

Drytime: 4.9Static Flow: 0 / 8.7Avg. Microns: 168.8Color L: 100.21 a -.09 b 1.95Technician: MA & TE

VAB.0001200627

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 10, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41163

Ship Date: March 9, 1992

Order No.: 0008026-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.582
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.5
Pan		10.0 Max.	1.7
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.004
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H.D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200628

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

ACFX

Load Date: 3-4-92Product: 5385Car No.: 41163Time Logged In: 0500Logged In By: M.TSilo(s): 676-685Ship Date: 3/9/92 Order No: 0008026-003 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.03		.04		.04	
Contamination	BL		4		8		4	
	BR		7(3) ^{Fish}		8		5	
Bulk Density	.578		.581		.581		.587	
BD after Fluff								
Hard Particle 5	18							
7	300							
Viscosity	.934							
RVCM	.004							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	00	.44	1233	14.82	11.63	5.82	3.74	.84
% P	00	.9	24.7	29.6	24.0	11.6	7.5	1.7

Drytime: 4.8 Static Flow: 0 110.0 Avg. Microns: 157.7Color L: 100.44 a -0.04 b 1.69Technician: M.T & R.H

VAB.0001200629

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 12, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45913

Ship Date: March 11, 1992

Order No.: 0008026-004

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.19
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.573
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	5.7
Pan		10.0 Max.	1.7
40 Mesh Glassies	ABR-6	5 Max. Avg.^	1

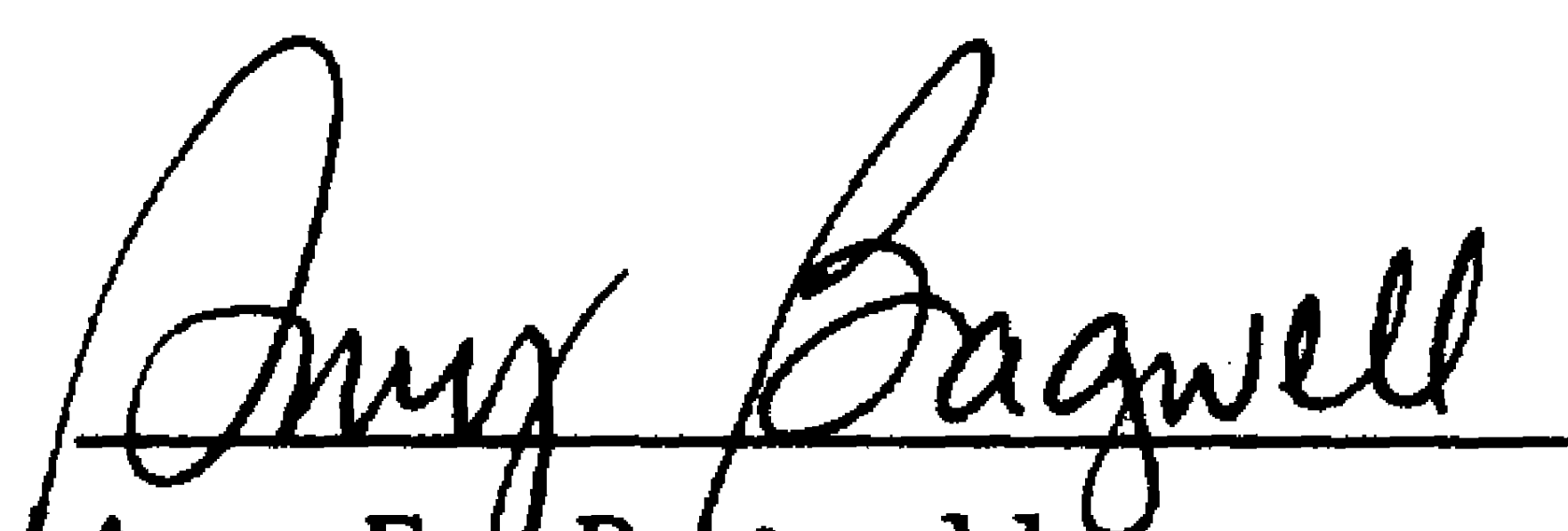
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	1	1	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.089
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200630

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-7-92Product: 5385Car No.: 45913Time Logged In: 2300Logged In By: D.T.Silo(s): 676, 677, 685Ship Date: 3/11/92Order No: 0008026-004Customer: HennepinNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.19		.16		.15		.16	
Contamination	BL <u>3</u>	—	2	—	4	—	2	—
	BR <u>5</u>		6		5		8	
Bulk Density	.580		.578		.566		.569	
BD after Fluff								
Hard Particle 5	<u>10</u>	—	—	—	—	—	—	—
7	<u>4</u> JJ							
Viscosity	.930							
RVCM	.089							
40 Mesh/Glassies	0		1		1		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.77</u>	<u>18.35</u>	<u>14.11</u>	<u>8.64</u>	<u>4.45</u>	<u>2.84</u>	<u>0.85</u>
%	<u>0.0</u>	<u>1.5</u>	<u>36.7</u>	<u>28.2</u>	<u>17.3</u>	<u>8.9</u>	<u>5.7</u>	<u>1.7</u>

Drytime: 5.0Static Flow: 0 110.8Avg. Microns: 169.2Color L: 100.27 a 0.03 b 1.82Technician: Co + Ed

VAB.0001200631

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 16, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: GACX 73380

Ship Date: March 13, 1992

Order No.: 0008026-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.06
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.579
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	12.4
----------	--	-----	------

Pan		10.0 Max.	2.6
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg. ^	1
------------------	-------	---------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

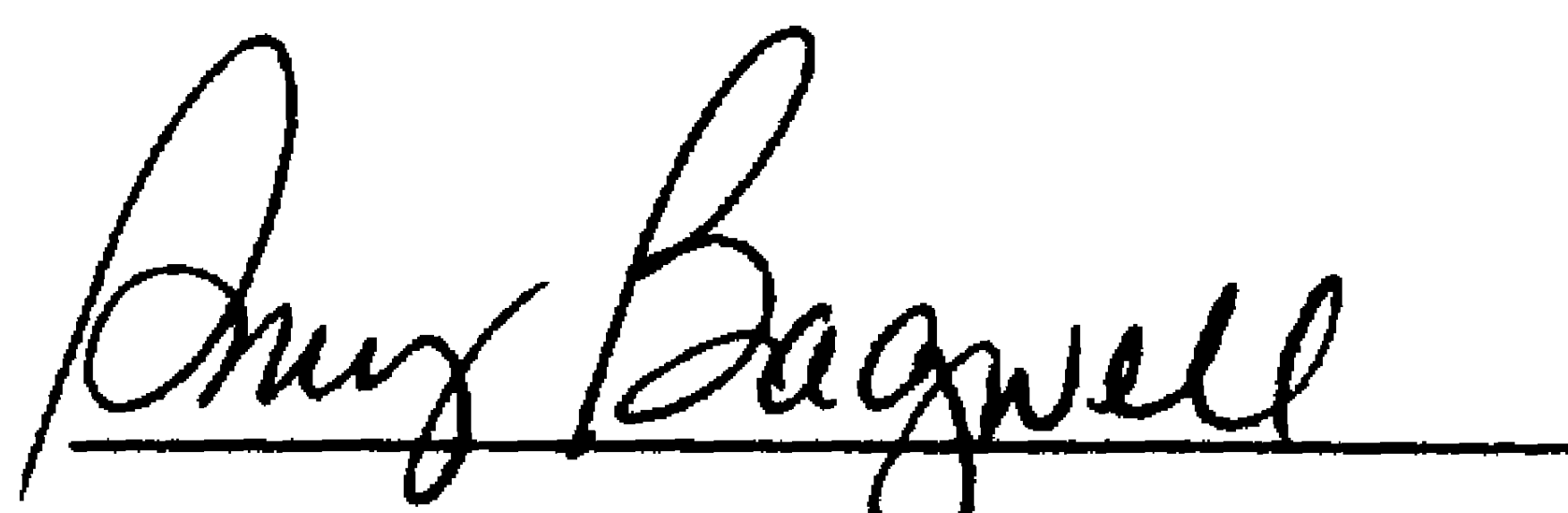
A	CA	CB	B
5	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.191
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.93
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-6-92Product: 5385Car No.: 73380Time Logged In: 0200Logged In By: J.T.Silo(s): 676, 687, 685Ship Date: 3/13Order No: 8026-005Customer: CenrapNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.05		.05		.06	
Contamination	BL		5		6		8	
	BR		9		13		12	
Bulk Density	.566		.586		.583		.580	
BD after Fluff								
Hard Particle 5	8							
7	4 R.P.							
Viscosity	.928							
RVCN	.191							
40 Mesh/Glassies	5		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.15</u>	<u>7.60</u>	<u>12.98</u>	<u>13.35</u>	<u>8.47</u>	<u>6.21</u>	<u>1.30</u>
%	<u>0.0</u>	<u>0.3</u>	<u>15.2</u>	<u>26.0</u>	<u>26.6</u>	<u>16.9</u>	<u>12.4</u>	<u>2.6</u>

Drytime: 4.8Static Flow: 0 11.6 Avg. Microns: 143.9Color L: 100.57 a 0.03 b 1.47Technician: J.T. & HPL

VAB.0001200633

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 18, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46570

Ship Date: March 16, 1992

Order No.: 0008026-006

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	5.3
Pan		10.0 Max.	1.6
40 Mesh Glassies	ABR-6	5 Max. Avg.^	2

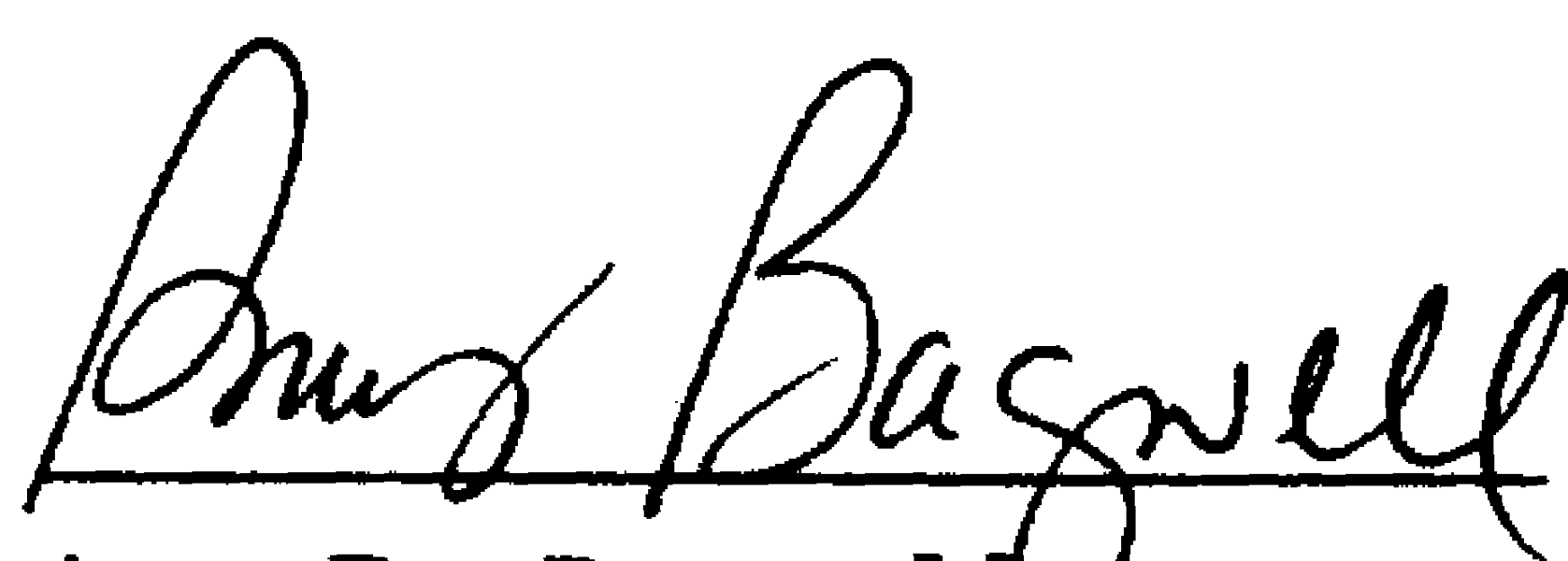
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
1	2	2	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	7
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.144
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-15-92 Product: 5385 Car No.: 46570
 Time Logged In: 1600 Logged In By: M.T Silo(s): 676-677
 Ship Date: 3/16/92 Order No: 8026-006 Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.11		.12		.15	
Contamination	BL							
	BR							
	<u>5</u>	—	<u>4</u>	—	<u>3</u>	—	<u>5</u>	—
	<u>15</u>		<u>13</u>		<u>12</u>		<u>15</u>	
Bulk Density	.574		.579		.574		.572	
BD after Fluff								
Hard Particle 5	<u>19</u>	—	—	—	—	—	—	—
7	<u>7</u>							
Viscosity	<u>PC</u>							
	<u>.938</u>							
RVCM	<u>.144</u>							
40 Mesh/Glassies	<u>1</u>		<u>2</u>		<u>2</u>		<u>1</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.56</u>	<u>18.81</u>	<u>14.23</u>	<u>8.55</u>	<u>4.25</u>	<u>2.66</u>	<u>.80</u>
%	<u>0.0</u>	<u>1.1</u>	<u>37.6</u>	<u>28.5</u>	<u>17.4</u>	<u>8.5</u>	<u>5.3</u>	<u>1.6</u>

Drytime: 5.0 Static Flow: 0 / 8.8 Avg. Microns: 169.6

Color L: 100.39 a .04 b 1.79

Technician: M.J + T.E

VAB.0001200635

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 3/23/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04896

Attention: Plant Chemist

Trailer No.: T-480117

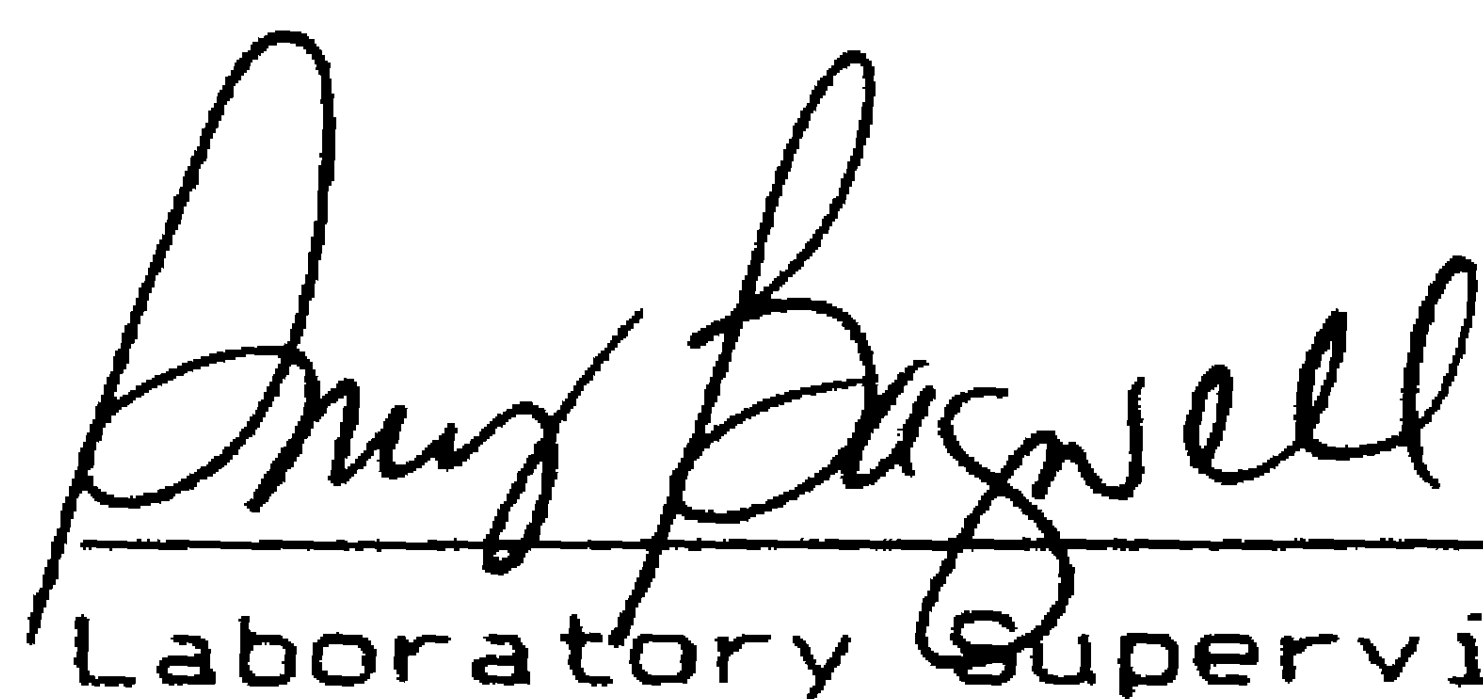
Ship Date: 3/19/92

Order No.: 0008626-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.16</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.581</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>5.5</u>
Pan		10.0 Max.	<u>1.6</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>5</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200636

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46592

Ship Date: March 19, 1992

Order No.: 0008026-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.08
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.3
Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	9
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.016
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-15-92 Product: 5385 Car No.: 46592
 Time Logged In: 0200 Logged In By: MM Silo(s): 676, 677, 685
 Ship Date: 3/19 Order No: 8026-007 Customer: Gencorp

No Metal 3/18-92

Compartment	<u>A</u>		<u>CA</u>		<u>CB</u>		<u>B</u>	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.08</u>		<u>.06</u>		<u>.06</u>		<u>.05</u>	
Contamination	BL	<u>2</u>	<u>3</u>	<u>2</u>	<u>3</u>		<u>3</u>	
	BR	<u>12</u>	<u>14</u>	<u>12</u>	<u>9</u>			
Bulk Density	<u>.572</u>		<u>.578</u>		<u>.572</u>		<u>.578</u>	
BD after Fluff								
Hard Particle 5	<u>31</u>							
7	<u>97MB</u>							
Viscosity	<u>934</u>							
RVCM	<u>.016</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.15</u>	<u>11.11</u>	<u>15.60</u>	<u>11.56</u>	<u>6.30</u>	<u>4.15</u>	<u>1.05</u>
%	<u>0.00</u>	<u>0.3</u>	<u>22.2</u>	<u>31.2</u>	<u>23.3</u>	<u>12.6</u>	<u>8.3</u>	<u>2.1</u>

Drytime: 4.9 Static Flow: 0 10.3 Avg. Microns: 154.0

Color L: 100.43 a -0.05 b 1.62

Technician: D. J. H. L.

VAB.0001200639

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45891

Ship Date: March 20, 1992

Order No.: 0008026-008

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.570
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.9
Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.^	1

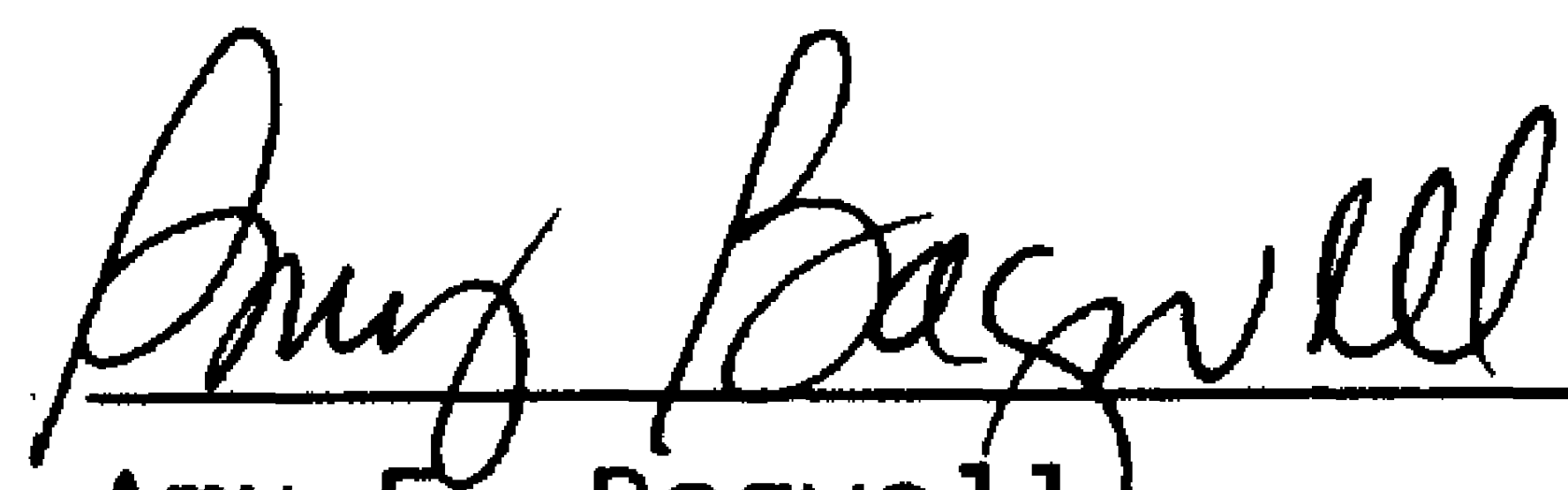
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	1	0	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.045
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200640

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-19-92Product: 5385Car No.: 45891Time Logged In: 0200Logged In By: MYSilo(s): 685Ship Date: 3/20/92Order No: 8026-008Customer: Concorp/

No Metal

3-20-92

Compartment	<u>A</u>		<u>CA</u>		<u>CB</u> <u>CO</u>		<u>B</u>	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.15		.15		.16	
Contamination <u>BL</u>	<u>2</u>	—	<u>3</u>	—	<u>2</u>	—	<u>2</u>	—
<u>BR</u>	<u>7</u>		<u>9</u>		<u>8</u>		<u>5</u>	
Bulk Density	.581		.553		.570		.575	
BD after Fluff	.581		.553					
Hard Particle <u>5</u>	<u>10</u>	—	—	—	—	—	—	—
<u>7</u>	<u>455</u>							
Viscosity	.935							
RVCM	.045							
40 Mesh/Glassies	0		1		0		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.04</u>	<u>8.91</u>	<u>15.47</u>	<u>12.96</u>	<u>7.04</u>	<u>4.43</u>	<u>1.03</u>
%	<u>0.0</u>	<u>0.1</u>	<u>17.8</u>	<u>30.9</u>	<u>26.1</u>	<u>14.1</u>	<u>8.9</u>	<u>2.1</u>

Drytime: 5.0Static Flow: 0.125 Avg. Microns: 149.6Color L: 99.54 a 0.07 b 1.69Technician: CO & ES

VAB.0001200641

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45841

Ship Date: March 23, 1992

Order No.: 0008026-009

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.13
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.3
Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

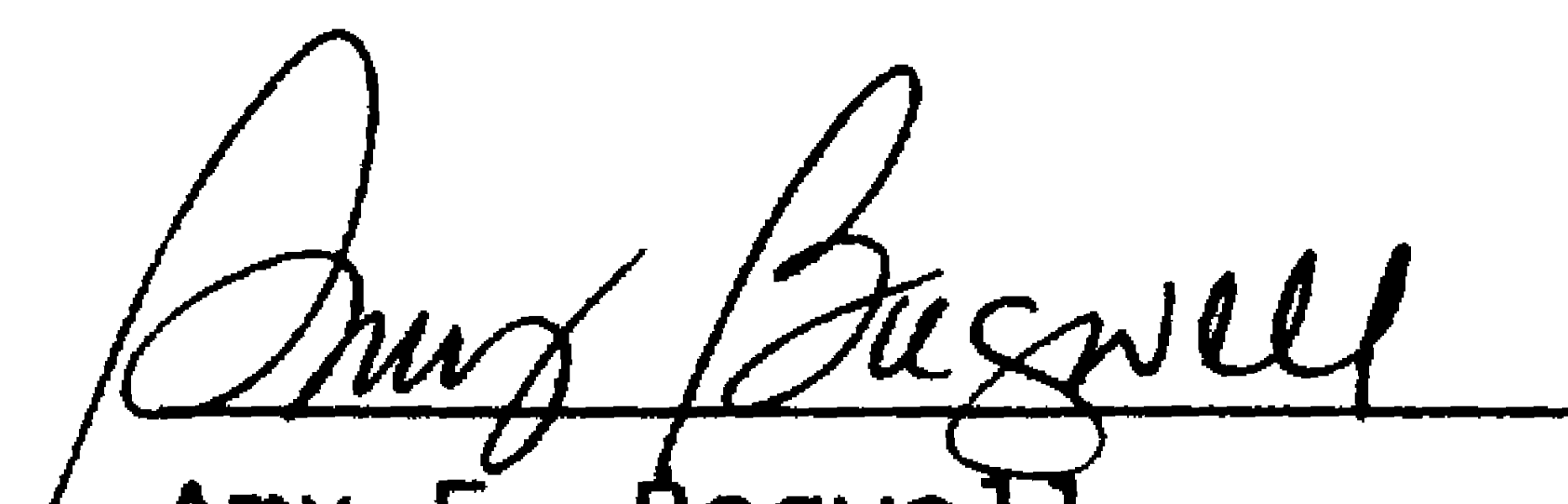
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	6
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.099
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200642

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-21-92 Product: 5385 Car No.: 4584
 Time Logged In: 2400 Logged In By: Pd. Silo(s): 685
 Ship Date: 3/23 Order No: 8026-009 Customer: Gencorp

No Mem 3-22-92 ES

Compartment	<u>A</u>		<u>CA</u>		<u>CB</u>		<u>B</u>	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.12</u>		<u>.13</u>		<u>.08</u>		<u>.06</u>	
Contamination	BL	<u>3</u>	—	<u>5</u>	—	<u>6</u>	—	<u>8</u>
	BR	<u>13</u>	—	<u>12</u>	—	<u>12</u>	—	<u>10</u>
Bulk Density	<u>.573</u>		<u>.562</u>		<u>.586</u>		<u>.581</u>	
BD after Fluff								<u>2</u>
Hard Particle 5	<u>47</u>	—	—	—	—	—	—	—
7	<u>6 m.b.</u>							
Viscosity	<u>.932</u>							
RVCM	<u>.099</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.20</u>	<u>10.03</u>	<u>14.27</u>	<u>11.83</u>	<u>2.34</u>	<u>5.13</u>	<u>1.13</u>
%	<u>0.0</u>	<u>0.4</u>	<u>20.1</u>	<u>28.5</u>	<u>23.7</u>	<u>14.7</u>	<u>10.3</u>	<u>2.3</u>

Drytime: 4.8 Static Flow: 0, 9.6 Avg. Microns: 150.3

Color L: 100.74 a -0.12 b 1.67

Technician: D.T.H.D.L

VAB.0001200643

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: March 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45896

Ship Date: March 26, 1992

Order No.: 0008026-010

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.08
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.589
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	5.8
Pan		10.0 Max.	1.4
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	6
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.107
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200644

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 3-26-92Product: 5385Car No.: 45896Time Logged In: 0630Logged In By: COSilo(s): 685Ship Date: 3/26/92Order No: 8026-010Customer: GENCORP*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.08		.06		.05	
Contamination	BL	4	3	4	3			
	BR	9	6	8	6			
Bulk Density	.593		.591		.592		.578	
BD after Fluff								
Hard Particle 5	28							
7	6 OK							
Viscosity	.936							
RVCM	.107							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.47</u>	<u>15.17</u>	<u>15.62</u>	<u>10.09</u>	<u>4.87</u>	<u>2.91</u>	<u>0.71</u>
%	<u>0.00</u>	<u>.9</u>	<u>30.3</u>	<u>31.2</u>	<u>20.7</u>	<u>9.7</u>	<u>5.8</u>	<u>1.4</u>

Drytime: 5.0Static Flow: 0 19.4Avg. Microns: 164.0Color L: 100.51 a -0.14 b 1.90Technician: M. J. + R. H.

VAB.0001200645

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: March 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46413

Ship Date: March 27, 1992

Order No.: 0008026-011

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.02
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	5.8
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

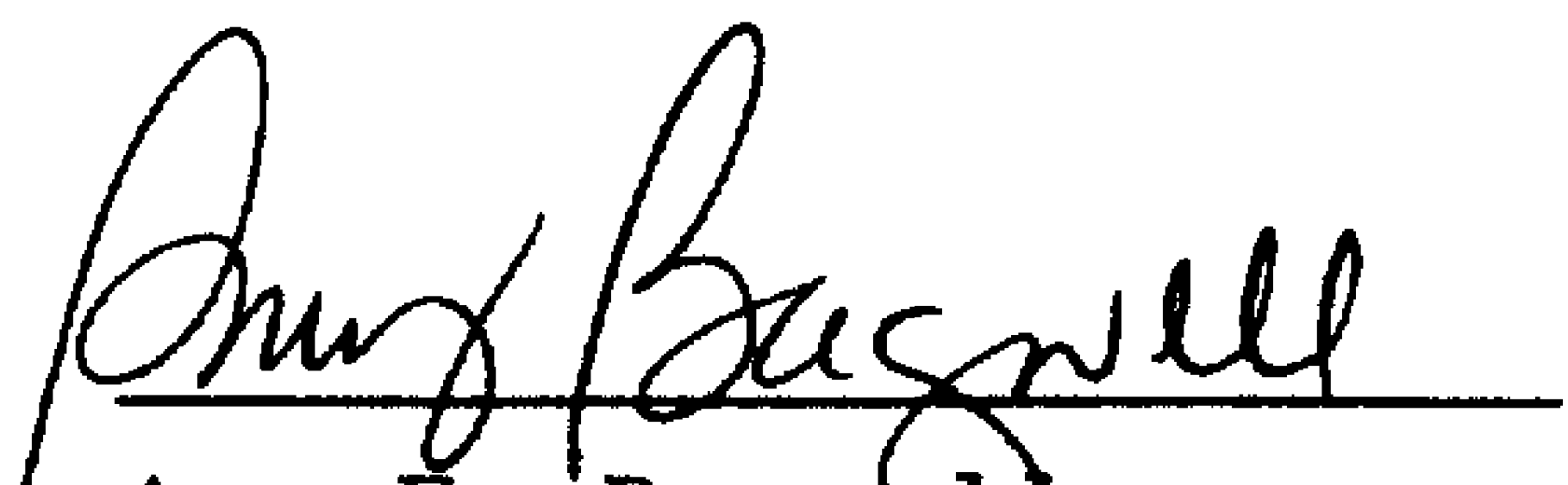
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	6
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.121
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200646

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-27-92Product: 5385Car No.: 46413Time Logged In: 0600Logged In By: ESSilo(s): 677Ship Date: 3/27/92Order No: ~~2026~~ 011Customer: GENCORP*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.01		.02	
Contamination	BL	<u>5</u>	<u>7</u>	<u>6</u>	<u>5</u>			
	BR	<u>8</u>	<u>5</u>	<u>7</u>	<u>8</u>			
Bulk Density	.584		.567		.577		.574	
BD after Fluff								
Hard Particle 5	<u>29</u>							
7	<u>6 du</u>							
Viscosity	.933							
RVCM	.121							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.81</u>	<u>16.86</u>	<u>14.33</u>	<u>9.52</u>	<u>4.79</u>	<u>2.91</u>	<u>.91</u>
% P	<u>0.0</u>	<u>1.6</u>	<u>33.7</u>	<u>28.7</u>	<u>18.8</u>	<u>9.6</u>	<u>5.8</u>	<u>1.8</u>

Drytime: 4.9Static Flow: 0 110.3Avg. Microns: 166.9Color L: 100.64 a -0.12 b 1.88Technician: M.T + R.H

VAB.0001200647

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A 1

CERTIFICATE OF ANALYSIS

Date: March 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 53666

Ship Date: March 30, 1992

Order No.: 0008026-012

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.588
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	5.6
Pan		10.0 Max.	1.2
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

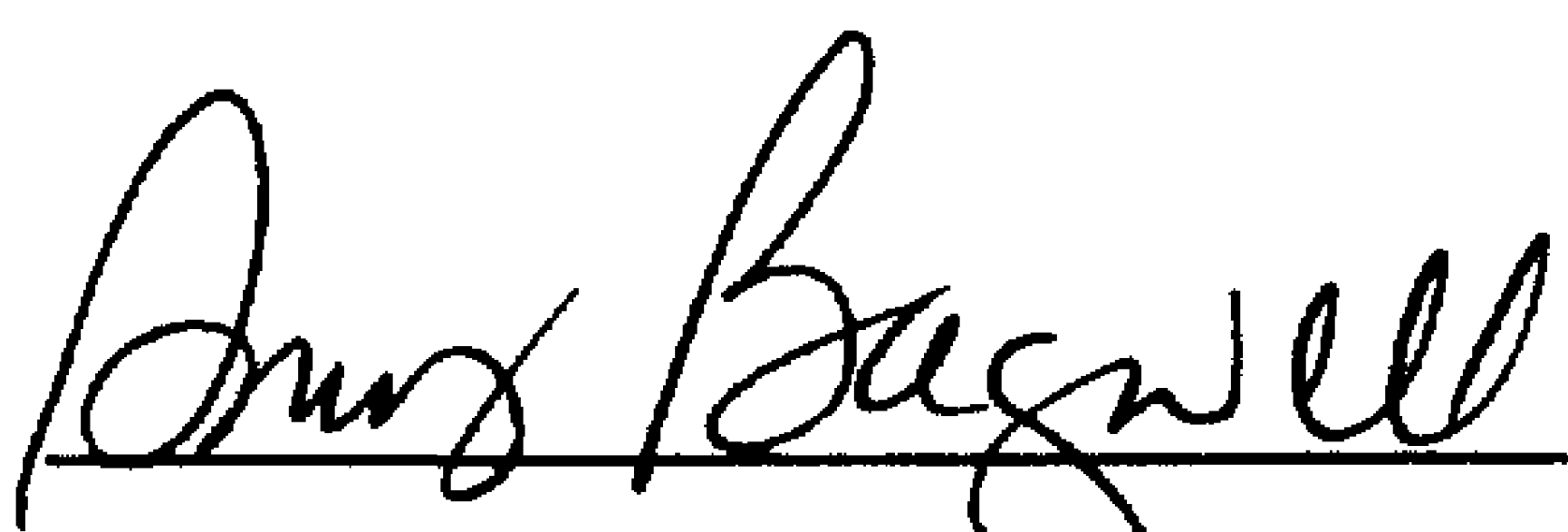
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	13
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.092
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200648

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-29-92 Product: 5385 Car No.: 53666
 Time Logged In: 2400 Logged In By: b Silo(s): 676
 Ship Date: 3/30 Order No: 8026-012 Customer: Inter GenCorp

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.05		.05		.05	
Contamination	BL	<u>8</u>	<u>19</u>		<u>9</u>		<u>8</u>	
	BR	<u>15</u>	<u>20</u>		<u>3</u>		<u>8</u>	
Bulk Density	.583		.596		.588		.586	
BD after Fluff								
Hard Particle 5	<u>33</u>							
7	<u>13 HDL</u>							
Viscosity	.918							
RVCM	.092							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.74</u>	<u>18.42</u>	<u>14.23</u>	<u>8.65</u>	<u>4.40</u>	<u>2.78</u>	<u>0.61</u>
%	<u>0.0</u>	<u>1.5</u>	<u>36.8</u>	<u>28.5</u>	<u>17.6</u>	<u>8.8</u>	<u>5.6</u>	<u>1.2</u>

Drytime: 5.0 Static Flow: 0, 7.8 Avg. Microns: 169.9

Color L: 100.82 a -0.05 b 1.49

Technician: P.T. + HDL

VAB.0001200649

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: April 20, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: ACFX 41168

Ship Date: April 16, 1992

Order No.: 0009830-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.1
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.7
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	1

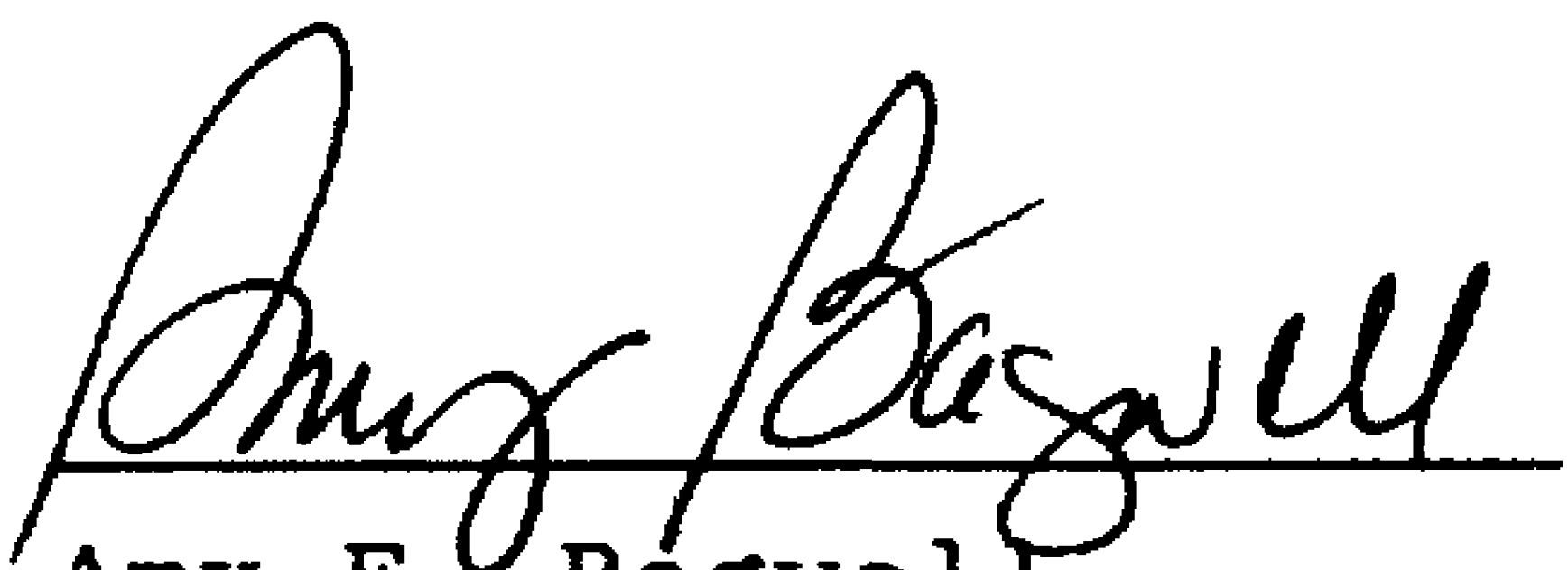
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
1	0	1	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	10
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.153
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200650

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-27-92Product: 5385Car No.: 41168Time Logged In: 2400Logged In By: P.T.Silo(s): 677+685Ship Date: 4/16Order No: 9830-000Customer: Gencorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.04		.04		.04	
Contamination	BL BR	<u>3</u> <u>6</u>	—	<u>2</u> <u>7</u>	—	<u>3</u> <u>4</u>	—	<u>4</u> <u>5</u>
Bulk Density		.582		.585		.575		.581
BD after Fluff								
Hard Particle 5 7		<u>36</u> <u>10 dm</u>	—	—	—	—	—	—
Viscosity		.932						
RVCM		.158						
40 Mesh/Glassies		1		0		1		1

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>00</u>	<u>.30</u>	<u>12.83</u>	<u>14.51</u>	<u>11.21</u>	<u>6.22</u>	<u>3.87</u>	<u>.91</u>
% P	<u>0.0</u>	<u>.6</u>	<u>25.7</u>	<u>29.0</u>	<u>23.0</u>	<u>12.4</u>	<u>7.7</u>	<u>1.8</u>

Drytime: 5.1Static Flow: 0 19.4Avg. Microns: 157.3Color L: 100.87 a -0.07 b 1.66Technician: M.T. & R.H.

VAB.0001200651

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: April 23, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: GACX 73386

Ship Date: April 21, 1992

Order No.: 0009830-001

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.19
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.578
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	7.6
----------	--	-----	-----

Pan		10.0 Max.	1.9
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg.^	0
------------------	-------	--------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.048
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.93
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200652

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4-4-92Product: 5385Car No.: 73386Time Logged In: 0200Logged In By: D.T.Silo(s): 676+677Ship Date: 4/21Order No: 9830-001Customer: GencorNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.18		.15		.19	
Contamination	BL		2		3		2	
	BR		6		5		7	
Bulk Density	.578		.573		.581		.581	
BD after Fluff								
Hard Particle 5	15							
7	4							
Viscosity	.932							
RVCM	.048							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.56</u>	<u>12.49</u>	<u>14.56</u>	<u>11.49</u>	<u>6.29</u>	<u>3.78</u>	<u>0.93</u>
%	<u>0.0</u>	<u>1.1</u>	<u>25.0</u>	<u>29.1</u>	<u>22.7</u>	<u>12.6</u>	<u>7.6</u>	<u>1.9</u>

Drytime: 5.0Static Flow: 0, 9.7Avg. Microns: 157.8Color L: 100.54 a 0.11 b 1.69Technician: C. J. E. S.

VAB.0001200653

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: April 27, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45791

Ship Date: April 23, 1992

Order No.: 0009830-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.12
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.591
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	7.7
----------	--	-----	-----

Pan		10.0 Max.	2.0
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0
------------------	-------	---------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.154
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.92
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200654

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4-19-92Product: 5385Car No.: 45791Time Logged In: 1600Logged In By: CSSilo(s): 676Ship Date: 4/23Order No: 9830-002Customer: GencorpNo Meta L

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.03		.05		.12	
Contamination	BL <u>10</u>	—	9	—	12	—	22	—
	BR <u>13</u>		12		10		10	
Bulk Density	.584		.586		.596		.598	
BD after Fluff								
Hard Particle 5 7	<u>11</u> <u>2 P.P.</u>	—	—	—	—	—	—	—
Viscosity	.916							
RVCM	.154							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>1.00</u>	<u>2.30</u>	<u>17.18</u>	<u>11.68</u>	<u>8.85</u>	<u>5.28</u>	<u>3.83</u>	<u>1.00</u>
%	<u>0.0</u>	<u>4.6</u>	<u>34.4</u>	<u>23.4</u>	<u>17.3</u>	<u>10.6</u>	<u>7.7</u>	<u>2.0</u>

Drytime: 5.0Static Flow: 0 18.1Avg. Microns: 170.7Color L: 100.67 a 0.08 b 1.64Technician: D. J. HAL

VAB.0001200655

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: April 27, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45897

Ship Date: April 24, 1992

Order No.: 0010192-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.17
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.585
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	4.4
----------	--	-----	-----

Pan		10.0 Max.	1.5
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg.^	0
------------------	-------	--------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

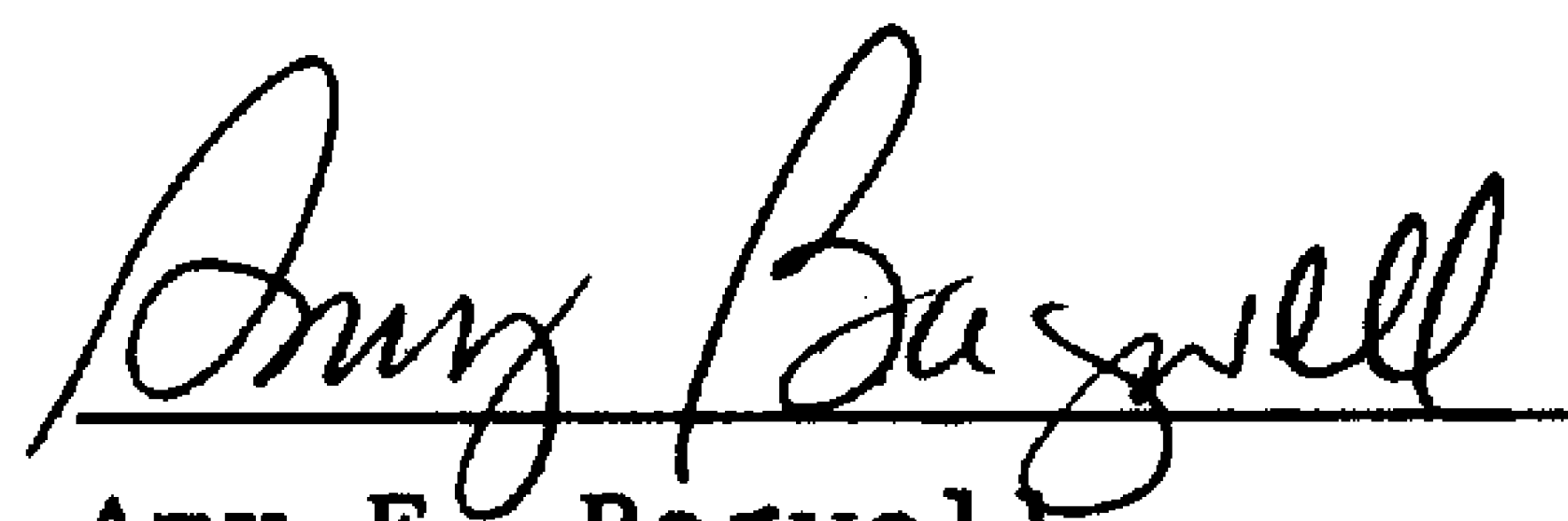
A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.139
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.92
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200656

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4-18-92Product: 5385Car No.: 45897Time Logged In: 0200Logged In By: D.J.Silo(s): 676, 677, 685Ship Date: 4/24Order No: 10192-000Customer: GenCorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.15		.14		.17	
Contamination	BL	2	3		4		6	
	BR	5	7		6		3	
Bulk Density	.578		.582		.594		.586	
BD after Fluff								
Hard Particle 5	14							
7	3.5							
Viscosity	.922							
RVCM	.139							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>3.13</u>	<u>21.75</u>	<u>11.88</u>	<u>7.05</u>	<u>3.41</u>	<u>2.21</u>	<u>0.73</u>
%	<u>0.0</u>	<u>6.3</u>	<u>43.5</u>	<u>23.8</u>	<u>13.7</u>	<u>6.8</u>	<u>4.4</u>	<u>1.5</u>

Drytime: 5.0Static Flow: 0.18.6Avg. Microns: 184.1Color L: 100.38 a 0.02 b 1.82Technician: Co & Es

VAB.0001200657

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: April 27, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46461

Ship Date: April 24, 1992

Order No.: 0010192-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.07
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.570
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	6.0
Pan		10.0 Max.	1.7
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

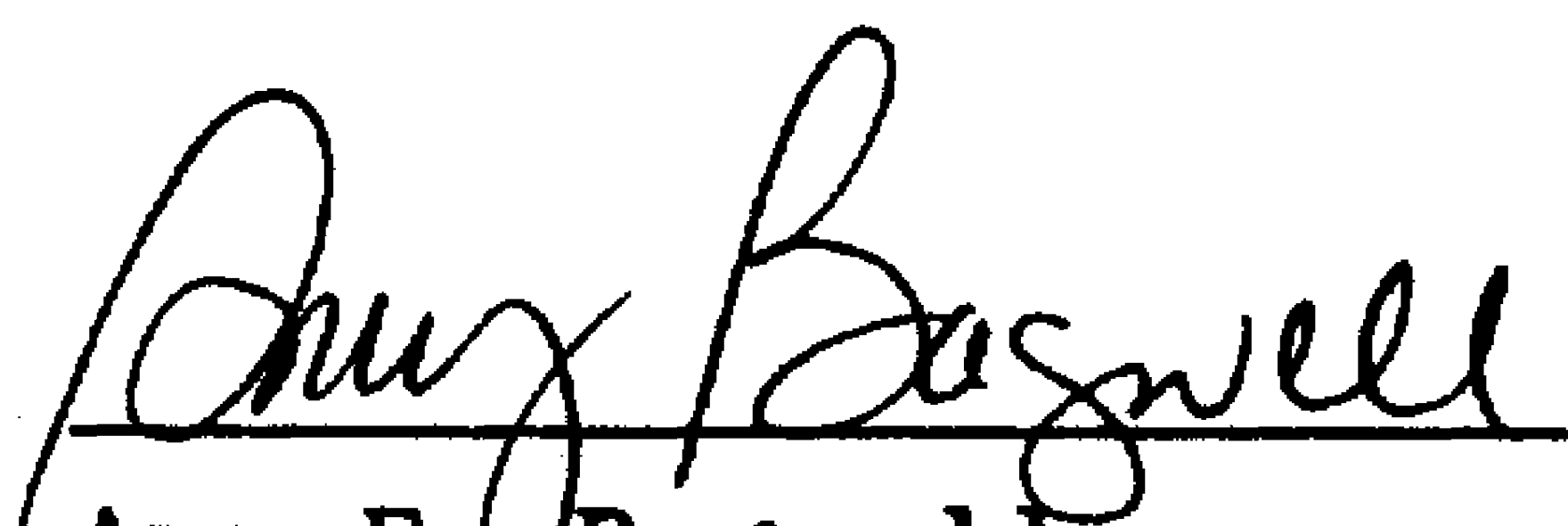
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.025
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200658

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4/7/92 Product: 5385 Car No.: 46461
 Time Logged In: 0230 Logged In By: DT. Silo(s): 677, 676, 685
 Ship Date: 4/24 Order No: 10192-001 Customer: Genco

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.04		.06		.07	
Contamination	BL <u>2</u>	—	3	—	4	—	6	—
	BR <u>4</u>		6		7		5	
Bulk Density	.571		.561		.563		.585	
BD after Fluff								
Hard Particle 5	<u>20</u>	—	—	—	—	—	—	—
7	<u>3</u> <u>55</u>							
Viscosity	.918							
RVCM	.025							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.66</u>	<u>18.92</u>	<u>12.93</u>	<u>8.29</u>	<u>4.46</u>	<u>2.98</u>	<u>.83</u>
%	<u>0.0</u>	<u>3.3</u>	<u>37.8</u>	<u>25.9</u>	<u>16.4</u>	<u>8.9</u>	<u>6.0</u>	<u>1.7</u>

Drytime: 5.0 Static Flow: 0.11.1 Avg. Microns: 172.9

Color L: 100.37 a 0.05 b 1.76

Technician: C + E

VAB.0001200659

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46434

Ship Date: April 27, 1992

Order No.: 0009830-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.590
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	7.5
Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.161
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200660

PVC RAILCAR ANALYSIS

Load Date: 4-24-92Product: 5385Car No.: 46434Time Logged In: 1400Logged In By: M.T.Silo(s): 676-677Ship Date: 4/27Order No: 9830-003Customer: GenCorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.12		.15		.15	
Contamination	BL <u>2</u>	—	5	—	4	—	3	—
	BR <u>8</u>		8		16		9	
Bulk Density	.583		.595		.598		.586	
BD after Fluff								
Hard Particle 5 7	<u>11</u> <u>253</u>	—	—	—	—	—	—	—
Viscosity	.919							
RVCM	.161							
40 Mesh/Glassies	0		0		0		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.50</u>	<u>14.87</u>	<u>1360</u>	<u>9.83</u>	<u>5.52</u>	<u>376</u>	<u>0.88</u>
%	<u>0.0</u>	<u>3.0</u>	<u>29.7</u>	<u>27.2</u>	<u>19.8</u>	<u>11.0</u>	<u>7.5</u>	<u>1.8</u>

Drytime: 4.8Static Flow: 0, 7.8Avg. Microns: 165.1Color L: 100.52 a 0.09 b 1.61Technician: D.T. + H.D.L.

CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 43053

Ship Date: April 28, 1992

Order No.: 0010192-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.05
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.542
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	5.3
----------	--	-----	-----

Pan		10.0 Max.	1.6
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0
------------------	-------	---------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

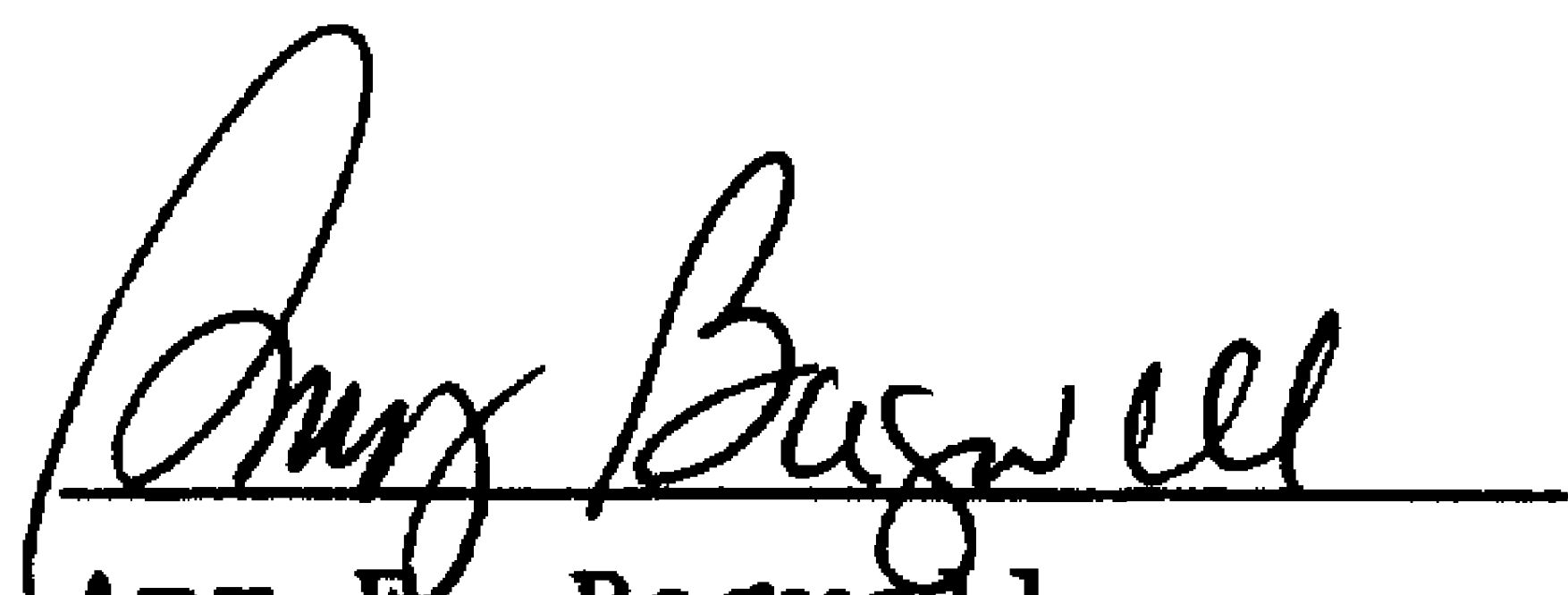
A	CA	CB	B
0	0	0	1

Hard Particles, 7 Mins.	ABR-12	25 Max.	1
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.064
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.92
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

Load Date: 4-25-92 Product: 5385 Car No.: 43053
 Time Logged In: 1100 Logged In By: M.T Silo(s): 676-677
 Ship Date: 4/28 Order No: 10192-002 Customer: GenCorp

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.03		.05		.05	
Contamination	BL	<u>5</u>	—	<u>3</u>	—	<u>4</u>	—	<u>4</u>
	BR	<u>8</u>	—	<u>7</u>	—	<u>6</u>	—	<u>7</u>
Bulk Density	.568		.530		.534		.535	
BD after Fluff								
Hard Particle 5	<u>20</u>	—	—	—	—	—	—	—
7	<u>172</u>							
Viscosity	.916							
RVCN	.064							
40 Mesh/Glassies	0		0		0		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>230</u>	<u>18.84</u>	<u>13.12</u>	<u>8.15</u>	<u>4.15</u>	<u>2.66</u>	<u>0.80</u>
%	<u>0.0</u>	<u>4.6</u>	<u>37.7</u>	<u>26.2</u>	<u>16.3</u>	<u>8.3</u>	<u>5.3</u>	<u>1.6</u>

Drytime: 4.8 Static Flow: 0, 14.6 Avg. Microns: 176.0

Color L: 100.48 a 0.18 b 1.75

Technician: P.T. + T.E.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PTLX 41675

Ship Date: April 29, 1992

Order No.: 0010192-004

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.12
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.554
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	8.9
Pan		10.0 Max.	2.2
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0

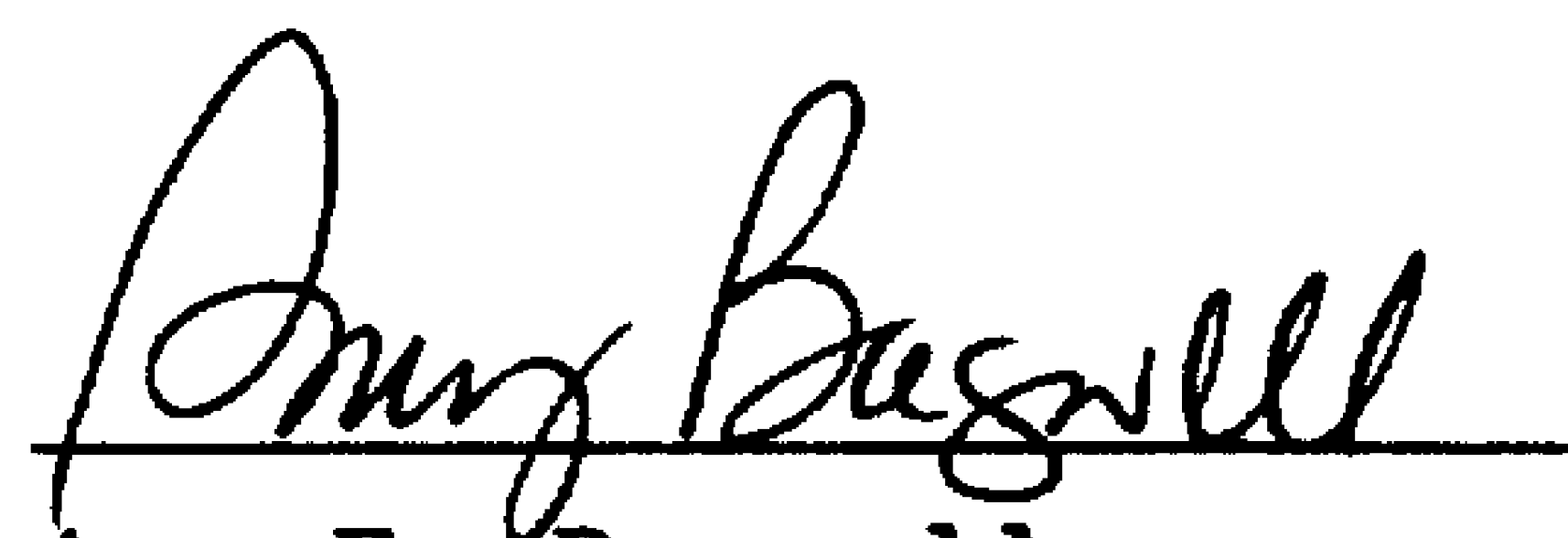
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.050
Inherent Viscosity	ABR-10	.90 to .95	0.91

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200664

PVC RAILCAR ANALYSIS

Load Date: 4-29-92 Product: 5385 Car No.: 41675
 Time Logged In: 1030 Logged In By: D.T. Silo(s): 676+677
 Ship Date: 4/29/92 Order No: 10192-004 Customer: Gencorp

No men

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.05		.12		.12	
Contamination	BL		8		6		6	
	BR		36		12		19	
Bulk Density	.575	.528	.564		.518		.561	
BD after Fluff	.574							
Hard Particle 5	8							
7	3 RP.							
Viscosity	.910							
RVCM	.050							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.43	10.71	14.64	11.96	6.58	4.46	1.11
%	0.0	0.9	21.4	29.3	24.1	13.2	8.9	22

Drytime: 4.8 Static Flow: 0 114.2 Avg. Microns: 153.6

Color L: 100.66 a 0.15 b 1.62

Technician: D.T. + HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A)

CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45796

Ship Date: April 30, 1992

Order No.: 0010192-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.585
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	12.9
Pan		10.0 Max.	2.8
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.165
Inherent Viscosity	ABR-10	.90 to .95	0.91

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200666

PVC RAILCAR ANALYSIS

Load Date: 4-29-92 Product: 5385 Car No.: 45796
 Time Logged In: 2430 Logged In By: M.T Silo(s): 676-677
 Ship Date: 4/30/92 Order No: 10192-003 Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.08		.11		.14	
Contamination BL	2	—	4	—	3	—	2	—
BR	8		7		6		9	
Bulk Density	.585		.578		.598		.578	
BD after Fluff								
Hard Particle 5	10	—	—	—	—	—	—	—
7	46							
Viscosity	.912							
RVCM	.165							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.31</u>	<u>8.61</u>	<u>13.04</u>	<u>12.97</u>	<u>8.02</u>	<u>6.46</u>	<u>1.38</u>
%	<u>0.0</u>	<u>.6</u>	<u>17.2</u>	<u>26.1</u>	<u>24.4</u>	<u>16.0</u>	<u>12.9</u>	<u>2.8</u>

Drytime: 4.9 Static Flow: 0 / 10.9 Avg. Microns: 145.8

Color L: 101.13 a .06 b 1.86

Technician: G & ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 46853

Ship Date: May 1, 1992

Order No.: 0010192-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.22
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.570
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.8
Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0

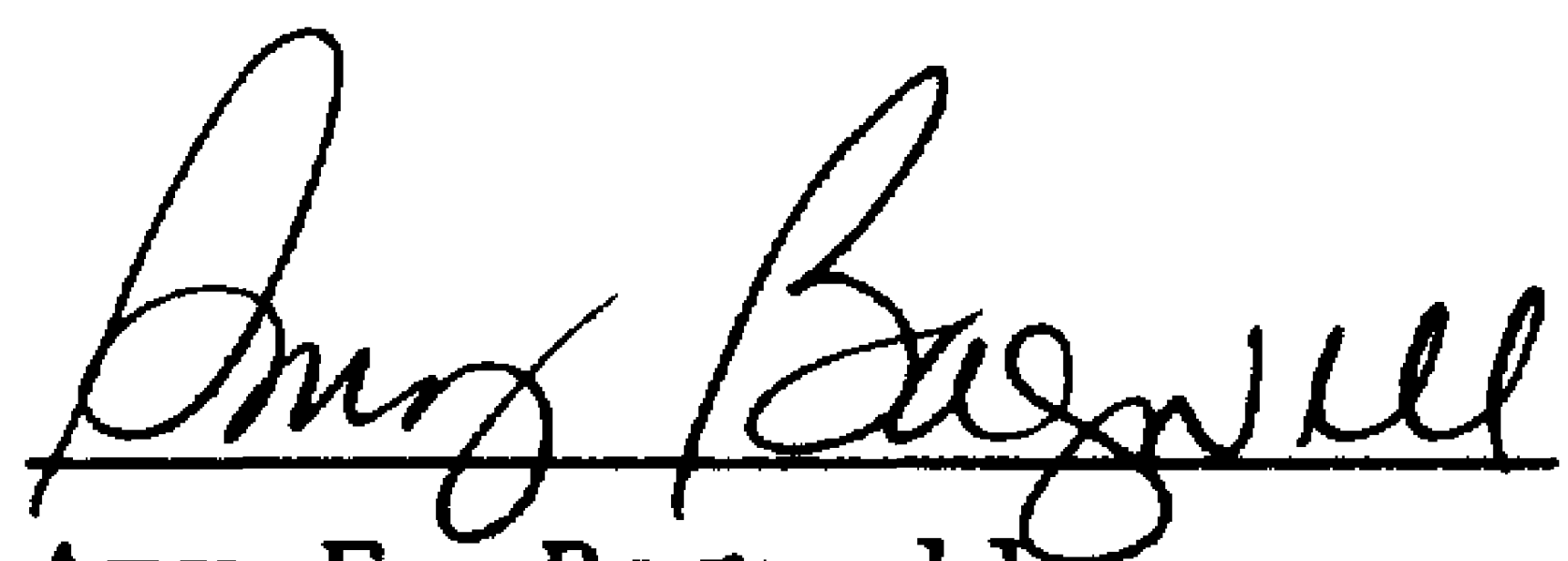
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.067
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200668

PVC RAILCAR ANALYSIS

Load Date: 4-30-92 Product: 5385 Car No.: 46853
 Time Logged In: 1800 Logged In By: ES Silo(s): 685
 Ship Date: 5/1 Order No: 10192-005 Customer: Gencorp

no metal

Compartment	<u>A</u> <u>MT</u>		<u>CA</u> <u>MT</u>		<u>CB</u>		<u>B</u>	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.19		.22		.21		.21	
Contamination	BL	<u>3</u>	<u>2</u>	<u>2</u>	<u>3</u>		<u>3</u>	
	BR	<u>5</u>	<u>7</u>	<u>4</u>	<u>6</u>		<u>6</u>	
Bulk Density	.587		.560		.573		.560	
BD after Fluff								
Hard Particle 5	<u>5</u>							
7	<u>2</u> <u>IT</u>							
Viscosity	.930							
RVCM	.067							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.73</u>	<u>8.34</u>	<u>12.69</u>	<u>13.13</u>	<u>8.24</u>	<u>5.39</u>	<u>1.18</u>
%	<u>0.0</u>	<u>1.5</u>	<u>16.7</u>	<u>25.4</u>	<u>26.7</u>	<u>16.5</u>	<u>10.8</u>	<u>2.4</u>

Drytime: 4.9 Static Flow: 0 / 9.0 Avg. Microns: 148.3

Color L: 100.69 a 0.16 b 1.61

Technician: CS + ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A 1

CERTIFICATE OF ANALYSIS

Date: 5/20/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04883

Attention: Plant Chemist

Trailer No.: T-480246

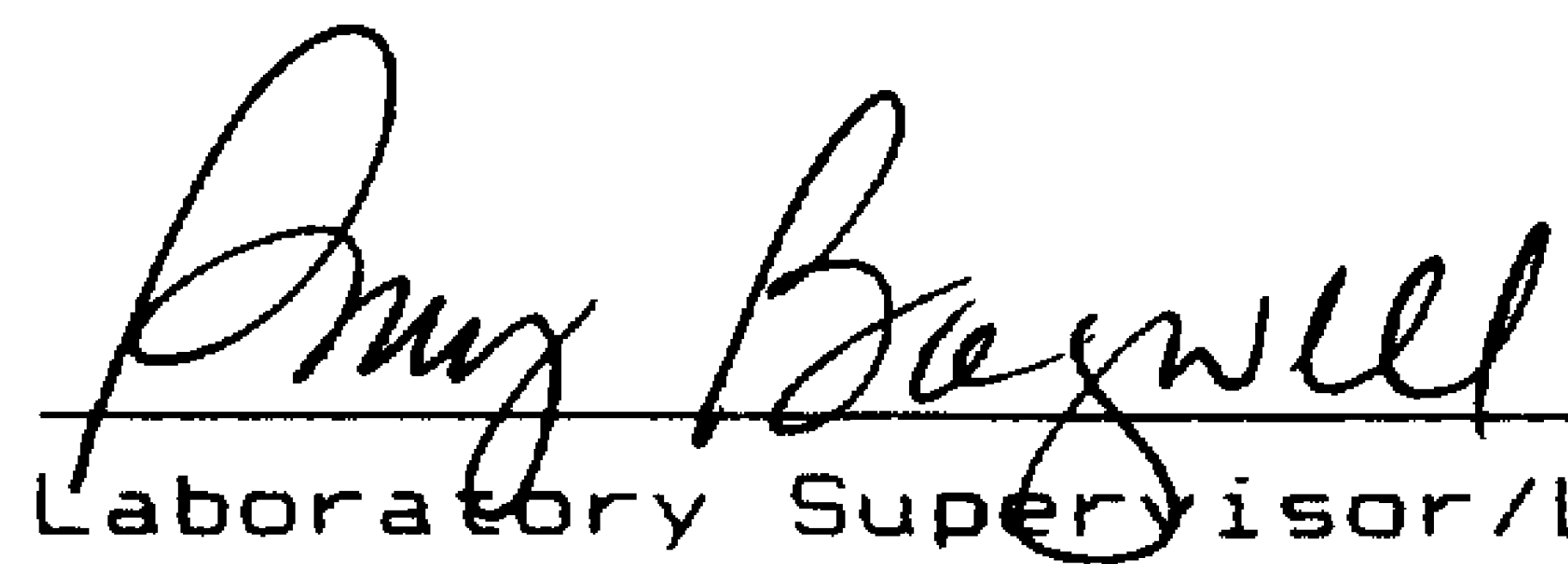
Ship Date: 5/13/92

Order No.: 0011042-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.13</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.588</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.6</u>
Pan		10.0 Max.	<u>2.1</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>6</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200670

^{MM}
Bag Blend ~~Experimental~~

Regulars or Bags

Page _____ of _____ pages

Vinyl Sample Log

Date 2-13-92

Product Type 5385

Blend Number	Time By	To	Sample No.	Moist.	Particle Size Distribution								HP Screen Set	Bulk G./C.C.	Dry Time	Cont. Black Brown	Static Flow	L & N Values			CPA Glassy	Visc
					40	60	80	100	120	140	200	Pan						L	A	B		
04883	2/20 20455	B 5	1	-									24/6	.588	5.0	-	0	20	50	80		
			4		0.00	0.47	10.28	14.89	12.31	6.80	4.32	1.04	6.6									
					0.0	0.9	20.6	29.8	24.4	13.6	8.6	2.1	+					8.7	100.46	.04	2.01	
			M/C													3						
			1	.13												5					.91	
			M/C													2						
			4	.14												4					.92	
																					</	

REVEN - .010

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A 1

CERTIFICATE OF ANALYSIS

Date: May 22, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46390

Ship Date: May 18, 1992

Order No.: 0011213-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.9
Pan		10.0 Max.	2.9
40 Mesh Glassies	ABR-6	5 Max. Avg.^	0

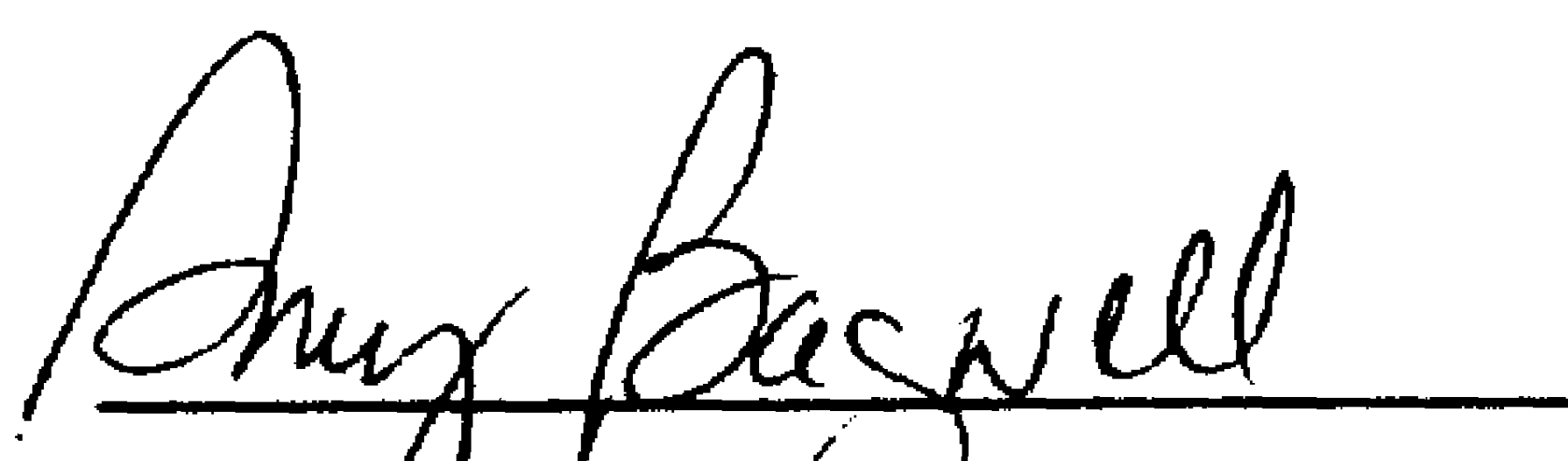
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.055
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200672

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-17-92 Product: 5385 Car No.: 46390
 Time Logged In: 0030 Logged In By: De Silo(s): 676/677
 Ship Date: 5/18 Order No: 11213-000 Customer: Linecorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.15		.16	
Contamination	BL BR	<u>10</u> <u>6</u>	—	<u>9</u> <u>6</u>	—	<u>12</u> <u>5</u>	—	<u>14</u> <u>8</u>
Bulk Density	.579		.582		.580		.583	
BD after Fluff								
Hard Particle 5 7	<u>8</u> <u>2.46</u>	—	—	—	—	—	—	—
Viscosity	.933							
RVCM	.055							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.60</u>	<u>10.30</u>	<u>13.73</u>	<u>11.44</u>	<u>6.76</u>	<u>5.43</u>	<u>1.45</u>
%	<u>0.0</u>	<u>1.2</u>	<u>20.6</u>	<u>27.5</u>	<u>23.4</u>	<u>13.5</u>	<u>10.9</u>	<u>2.9</u>

Drytime: 4.8 Static Flow: 0 17.7 Avg. Microns: 151.4

Color L: 100.62 a .08 b 1.96

Technician: M. L. + H. A.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 22, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45714

Ship Date: May 21, 1992

Order No.: 0011213-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.06
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.6
Pan		10.0 Max.	2.8
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	1
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.030
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200674

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-21-92Product: 5385Car No.: 45714Time Logged In: 0600Logged In By: CSSilo(s): 676, 677, 685Ship Date: 5/21 Order No: 11213-002 Customer: Glucorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.04		.05		.06	
Contamination	BL							
	BR							
Bulk Density	.578		.581		.579		.581	
BD after Fluff								
Hard Particle 5	2							
7	7 JS.							
Viscosity	.929							
RVCM	.030							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.42</u>	<u>10.09</u>	<u>14.32</u>	<u>11.00</u>	<u>6.95</u>	<u>5.28</u>	<u>1.39</u>
%	<u>0.0</u>	<u>.8</u>	<u>20.2</u>	<u>28.6</u>	<u>23.1</u>	<u>13.9</u>	<u>10.6</u>	<u>2.8</u>

Drytime: 4.9 Static Flow: 0.194 Avg. Microns: 150.7Color L: 101.06 a 0.02 b 1.69Technician: M.T & R.H.

VAB.0001200675

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 28, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46433

Ship Date: May 22, 1992

Order No.: 0011213-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.05
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.575
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	8.2
----------	--	-----	-----

Pan		10.0 Max.	2.3
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg.^	0
------------------	-------	--------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

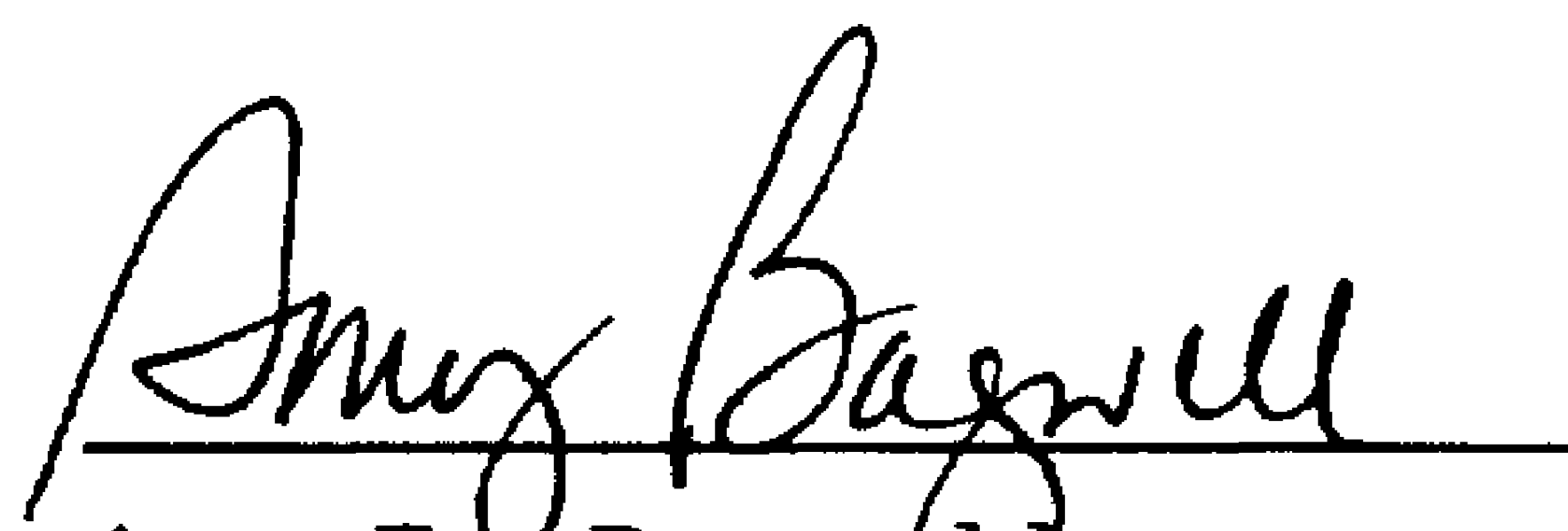
A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	3
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.088
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.93
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200676

PVC RAILCAR ANALYSIS

Load Date: 5-22-92Product: 5385Car No.: 46433Time Logged In: 1100Logged In By: MITSilo(s): 685-676-677Ship Date: 5/22/92Order No: 11213-001Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.02		.02		.05	
Contamination	BL							
	BR							
	<u>3</u>	—	<u>4</u>	—	<u>3</u>	—	<u>4</u>	—
	<u>6</u>		<u>7</u>		<u>5</u>		<u>6</u>	
Bulk Density	.566		.583		.581		.571	
BD after Fluff								
Hard Particle 5	<u>7</u>	—	—	—	—	—	—	—
7	<u>358</u>							
Viscosity	.927							
RVCM	.088							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.98</u>	<u>12.18</u>	<u>12.93</u>	<u>10.44</u>	<u>6.16</u>	<u>4.11</u>	<u>1.13</u>
% P	<u>0.0</u>	<u>4.0</u>	<u>24.4</u>	<u>25.9</u>	<u>22.9</u>	<u>12.3</u>	<u>8.2</u>	<u>2.3</u>

Drytime: 4.8Static Flow: 0 111.9Avg. Microns: 161.6Color L: 100.73 a 0.01 b 1.73Technician: MIT & RH

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 28, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46434

Ship Date: May 26, 1992

Order No.: 0011441-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.579
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	9.0
Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0

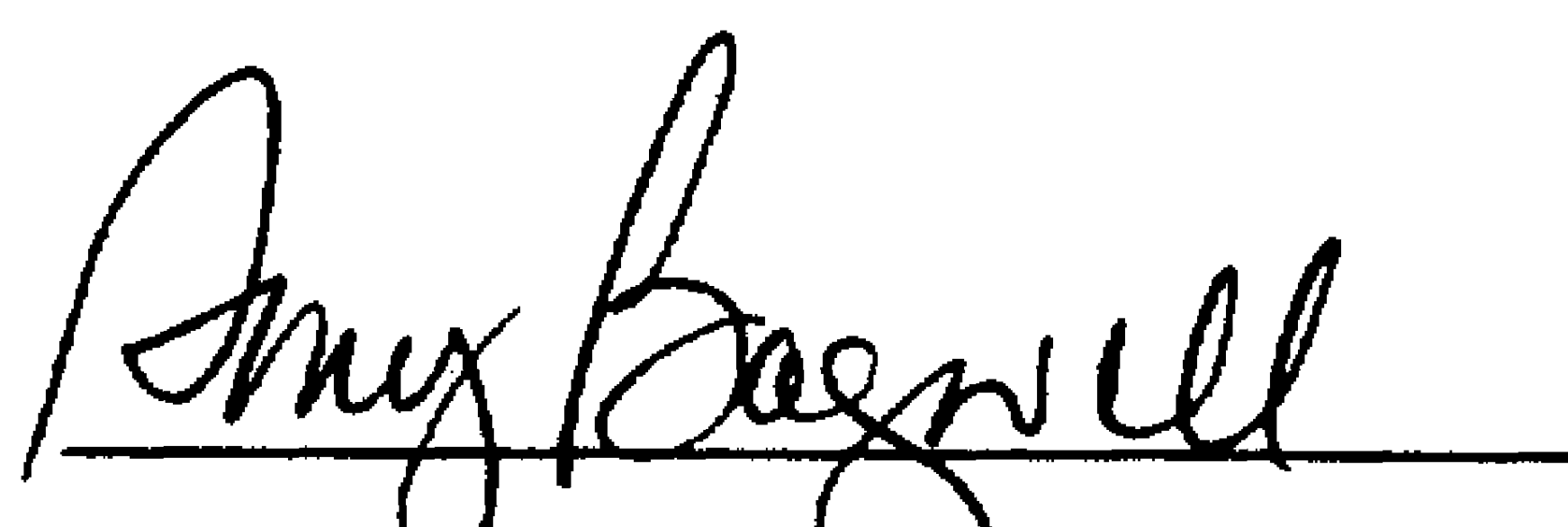
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	1
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.040
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200678

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-20-92 Product: 5385 Car No.: 46434
 Time Logged In: 0600 Logged In By: CO Silo(s): 677,674
 Ship Date: 5/26 Order No: 11441-000 Customer: Gencorp

No METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.14		.07		.13	
Contamination	BL <u>3</u>	—	2	—	5	—	10	—
	BR <u>3</u>		4		4		2	
Bulk Density	.579		.578		.580		.579	
BD after Fluff								
Hard Particle 5	<u>9</u>	—	—	—	—	—	—	—
7	<u>1 MB</u>							
Viscosity	.955	run each comp 5/22/92	.923	.923	1.008		.922	
RVCM	.040							
40 Mesh/Glassies	0		0		0		0	

AcB samples from retains
 Screen Analysis 5/22/92

	.929		.929		.925		.927	
Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.74</u>	<u>11.90</u>	<u>14.22</u>	<u>10.96</u>	<u>6.36</u>	<u>4.52</u>	<u>1.34</u>
%	<u>0.0</u>	<u>1.5</u>	<u>22.8</u>	<u>28.4</u>	<u>22.9</u>	<u>12.7</u>	<u>9.0</u>	<u>2.7</u>

Drytime: 49 Static Flow: 0 / 1.33 Avg. Microns: 155.2

Color L: 100.50 a 0.12 b 1.90

Technician: HA / MB

VAB.0001200679

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 28, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45727

Ship Date: May 26, 1992

Order No.: 0011213-004

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
-----------------	--------------------	----------------------	-----------------

Volatiles, %	ABR-1A	0.30 Max.	0.14
--------------	--------	-----------	------

Bulk Density, GM/CC	ABR-2A	.510 Min.	0.576
---------------------	--------	-----------	-------

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
---------------------------	-------	----------	-----

Particle Size, % on	ABR-3		
---------------------	-------	--	--

40 Mesh		0.1 Max.	0.00
---------	--	----------	------

200 Mesh		NDS	10.2
----------	--	-----	------

Pan		10.0 Max.	2.6
-----	--	-----------	-----

40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0
------------------	-------	---------------	---

(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
-------------------------	--------	---------	---

Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.040
------------------------	---------	----------	-------

Inherent Viscosity	ABR-10	.90 to .95	0.93
--------------------	--------	------------	------

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200680

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-22-92Product: 5385Car No.: 45727Time Logged In: 0200Logged In By: A.T.Silo(s): 676, 677, 685Ship Date: 5/26 Order No: 11213-004 Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.14		.12		.10	
Contamination	BL							
	BR							
	<u>3</u>	<u>—</u>	<u>2</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>3</u>	<u>—</u>
	<u>7</u>		<u>5</u>		<u>5</u>		<u>4</u>	
Bulk Density	.576		.580		.577		.523	
BD after Fluff								
Hard Particle 5	<u>6</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>26</u>							
Viscosity	.931							
RVCM	.040							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.96</u>	<u>12.50</u>	<u>13.38</u>	<u>10.46</u>	<u>6.20</u>	<u>5.09</u>	<u>1.30</u>
%	<u>0.0</u>	<u>1.9</u>	<u>25.0</u>	<u>26.8</u>	<u>21.1</u>	<u>12.4</u>	<u>10.2</u>	<u>2.6</u>

Drytime: 4.9Static Flow: 0, 11.4 Avg. Microns: 156.9Color L: 100.72 a .08 b 1.75Technician: CO + RH

VAB.0001200681

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: May 28, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45796

Ship Date: May 27, 1992

Order No.: 0011213-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.13
Bulk Density, GM/CC	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	0.00
200 Mesh		NDS	10.8
Pan		10.0 Max.	3.2
40 Mesh Glassies	ABR-6	5 Max. Avg. ^	0

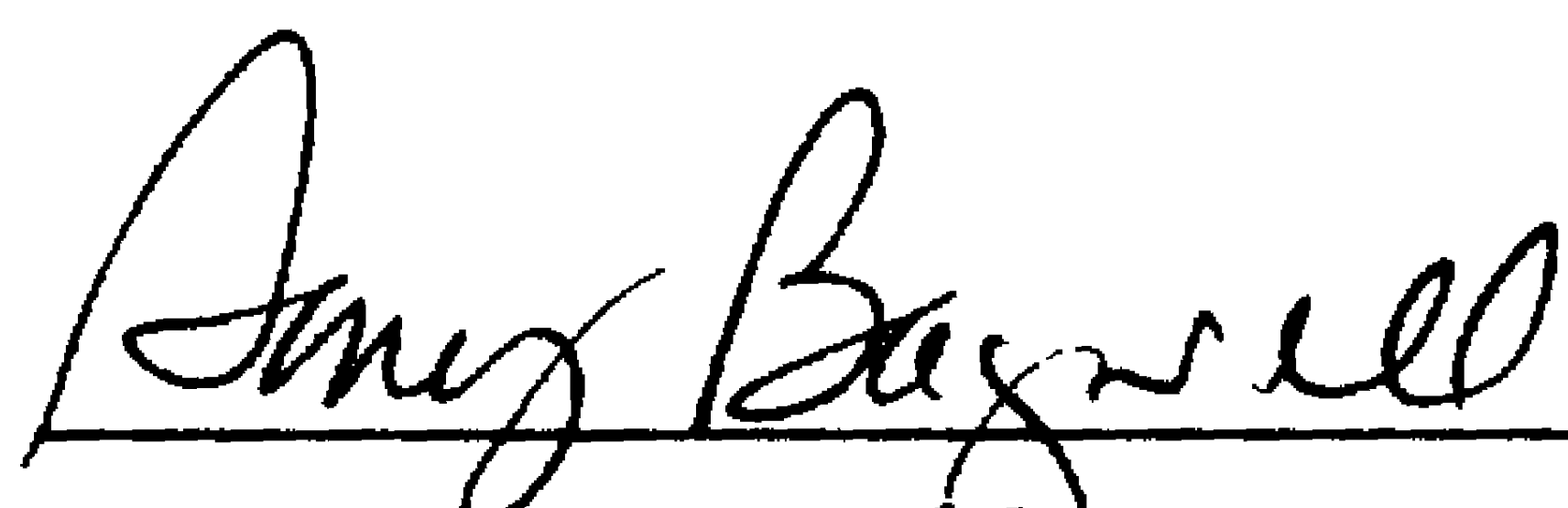
(By Compartment)

Glassies average of 5 for railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles, 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	0.171
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200682

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-22-92Product: 5385Car No.: 45796Time Logged In: 0200Logged In By: D.T.Silo(s): 676, 677, 685Ship Date: 5/27/92Order No: 11213-005Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.07		.05		.06	
Contamination	BL	<u>4</u>	—	<u>2</u>	—	<u>3</u>	<u>3</u>	—
	BR	<u>5</u>	—	<u>6</u>	—	<u>7</u>	<u>5</u>	—
Bulk Density	.584		.583		.569		.568	
BD after Fluff								
Hard Particle 5	<u>5</u>	—	—	—	—	—	—	—
	<u>26</u>							
Viscosity	.937							
RVCM	.171							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.92</u>	<u>11.31</u>	<u>13.35</u>	<u>10.93</u>	<u>6.63</u>	<u>5.45</u>	<u>1.62</u>
%	<u>0.0</u>	<u>1.8</u>	<u>22.6</u>	<u>26.7</u>	<u>21.6</u>	<u>13.3</u>	<u>10.8</u>	<u>3.2</u>

Drytime: 5.0Static Flow: 0 / 10.9Avg. Microns: 158.7Color L: 100.72 a .15 b 1.67Technician: G + RA

VAB.0001200683

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 5/29/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04768

Attention: Plant Chemist

Trailer No.: T-480326

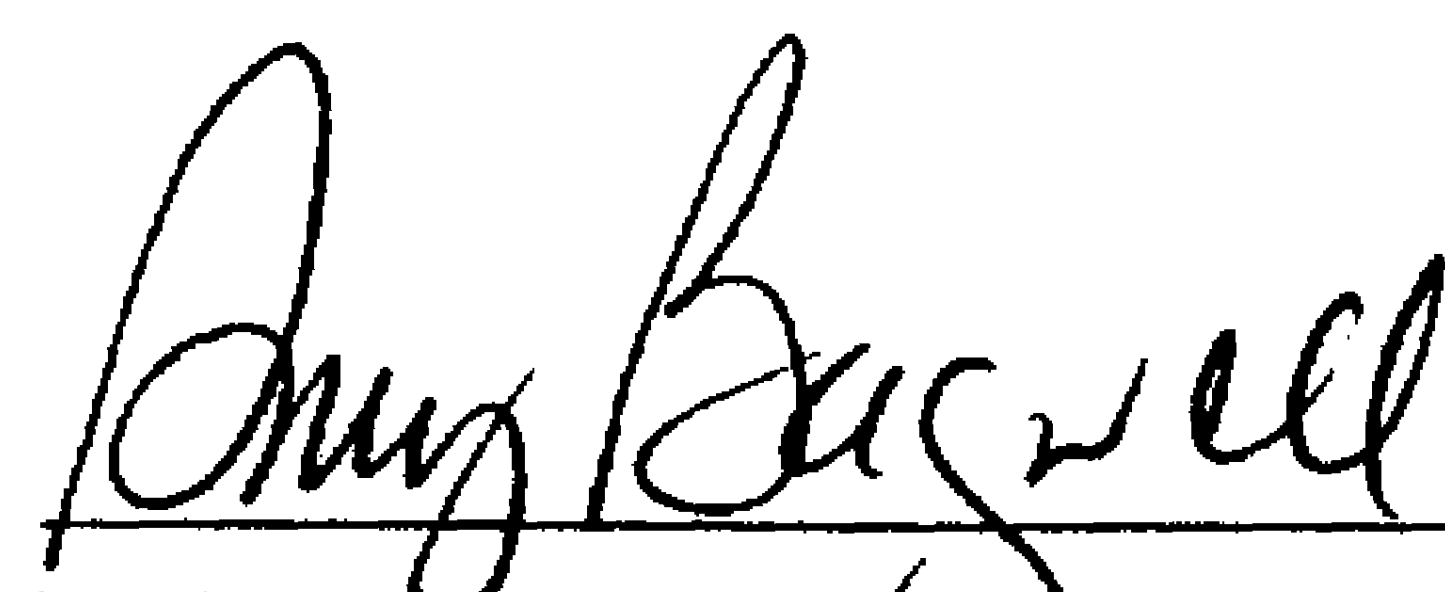
Ship Date: 5/26/92

Order No.: 0011441-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.15</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.583</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>4.1</u>
Pan		10.0 Max.	<u>1.4</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>4</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.94</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200684

BAG Blend

Regulars or Bags

Page _____ of _____ pages

Vinyl Sample Log

Date 8-20-91

Product Type 5385

Blend Number	Time By	To	Sample No.	Moist.	Particle Size Distribution								HP Screen Set	Bulk G./C.C.	Dry Time	Cont. Black Brown	Static Flow	L & N Values			CPA Glassy	Visc.
					40	60	80	100	120	140	200	Pan						L	A	B		
04768	2400 MDB	Composite	1										30/4	.583			0	20	50	80		
			2										MT									
			10		0.00	0.82	17.15	15.98	9.34	3.91	2.05	0.70	P									
					0.0	1.6	34.3	32.0	18.8	7.8	4.1	1.4		.568	4.9		7.4	100.19	0.02	1.94		
			1	.11												14/		20	50	80		
																34/						934
			4	.12												10/		20	50	80		
																27/						937
			7	.11												8/		20	50	80		
																25/		RVCM .010				
			10	.14												9/		20	50	80		
																15/						
			13	.15												18/		20	50	80		
																32/						

CERTIFICATE OF ANALYSIS

Date: June 2, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45864

Ship Date: May 28, 1992

Order No.: 0011213-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.3
% on Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

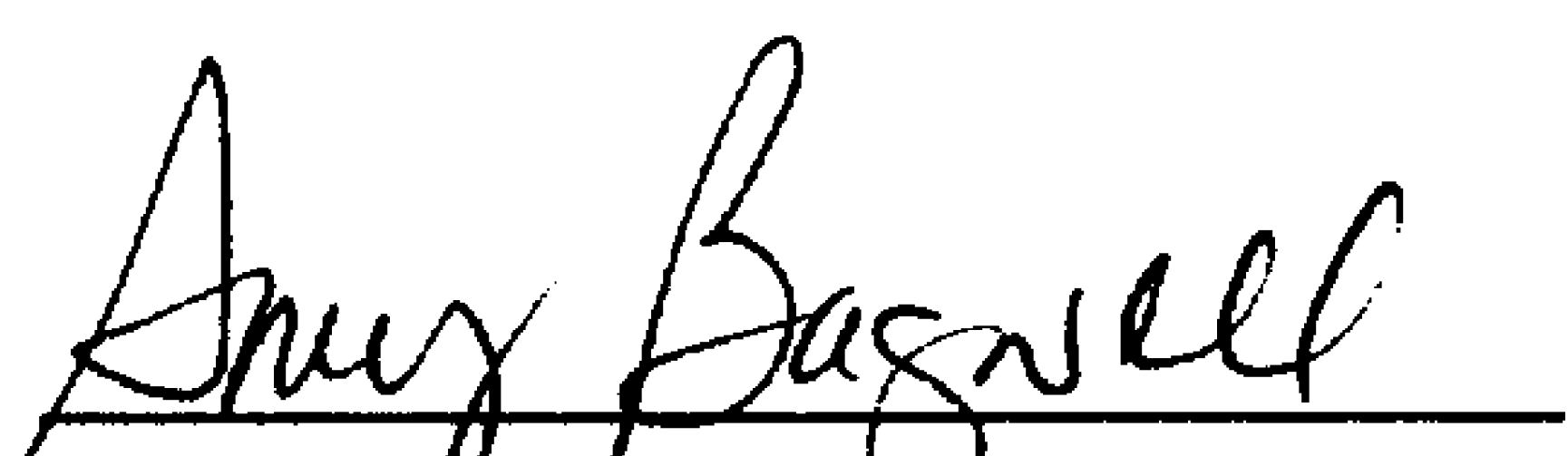
(By Compartment)

*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.125
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200686

PVC RAILCAR ANALYSIS

Load Date: 5/23/92 Product: 5385 Car No.: 45864
 Time Logged In: 0130 Logged In By: JA Silo(s): 626/677/688
 Ship Date: 5/29 Order No: 11213-007 Customer: Gencomp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.10		.14	
Contamination	BL <u>2</u>	—	3	—	2	—	4	—
	BR <u>5</u>		9		6		8	
Bulk Density	.581		.581		.577		.581	
BD after Fluff								
Hard Particle 5	<u>5</u>	—	—	—	—	—	—	—
7	<u>25</u>							
Viscosity	.930							
RVCN	.125							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.31</u>	<u>11.87</u>	<u>14.80</u>	<u>10.89</u>	<u>6.05</u>	<u>4.63</u>	<u>1.36</u>
%	<u>0.0</u>	<u>.6</u>	<u>23.7</u>	<u>29.6</u>	<u>22.0</u>	<u>12.1</u>	<u>9.3</u>	<u>2.7</u>

Drytime: 5.0 Static Flow: 0 / 10.1 Avg. Microns: 154.4

Color L: 108.08 a .04 b 1.75

Technician: Q & R H

CERTIFICATE OF ANALYSIS

Date: June 2, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PTLX 41675

Ship Date: May 28, 1992

Order No.: 0011213-006

VISTA

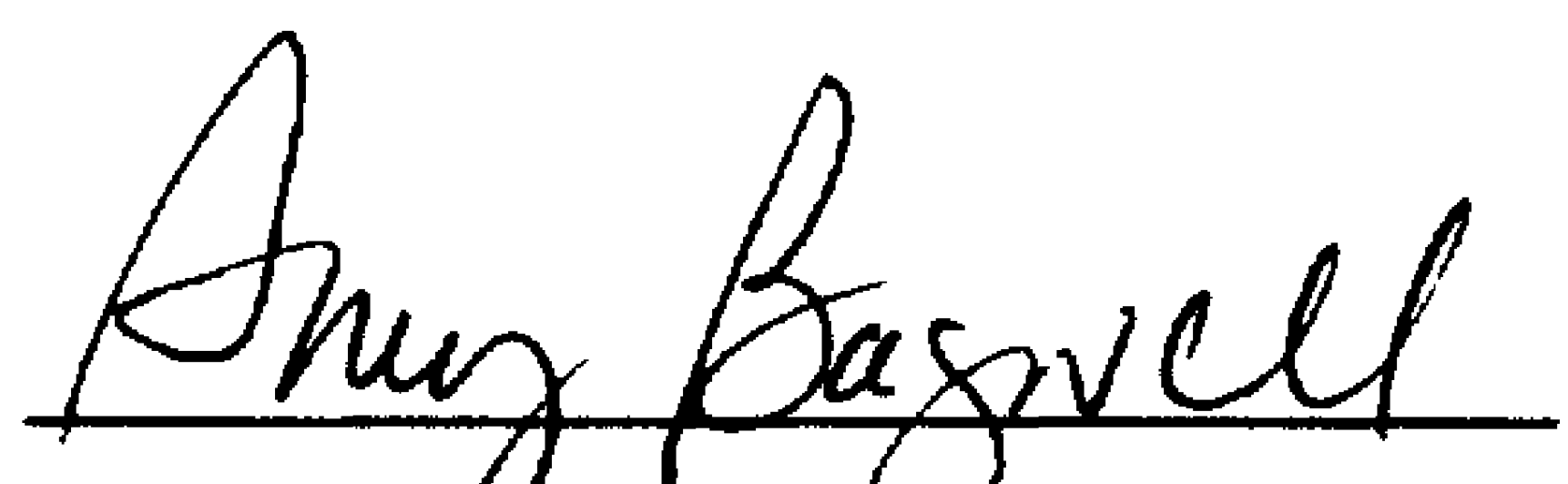
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.5
% on Pan		10.0 Max.	2.9
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.090
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200688

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-23-92Product: 5385Car No.: 41675Time Logged In: 0900Logged In By: LBSilo(s): 676, 677, 685Ship Date: 5/28Order No: 11213-006Customer: Cencorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.14</u>		<u>.05</u>		<u>.06</u>		<u>.16</u>	
Contamination	BL							
	BR							
	<u>3</u>	<u>—</u>	<u>1</u>	<u>—</u>	<u>2</u>	<u>—</u>	<u>3</u>	<u>—</u>
	<u>4</u>		<u>4</u>		<u>5</u>		<u>5</u>	
Bulk Density	<u>.577</u>		<u>.583</u>		<u>.584</u>		<u>.574</u>	
BD after Fluff								
Hard Particle 5	<u>4.</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>2/0</u>							
Viscosity	<u>.929</u>							
RVCM	<u>.090</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.83</u>	<u>10.17</u>	<u>13.39</u>	<u>11.36</u>	<u>6.89</u>	<u>5.24</u>	<u>1.43</u>
%	<u>0.0</u>	<u>1.7</u>	<u>20.3</u>	<u>26.8</u>	<u>24.0</u>	<u>13.8</u>	<u>10.5</u>	<u>2.9</u>

Drytime: 5.0Static Flow: 0 19.7 Avg. Microns: 152.1Color L: 99.73 a .03 b 1.50Technician: G + R H

VAB.0001200689

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 6/5/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04836

Attention: Plant Chemist

Trailer No.: LTL

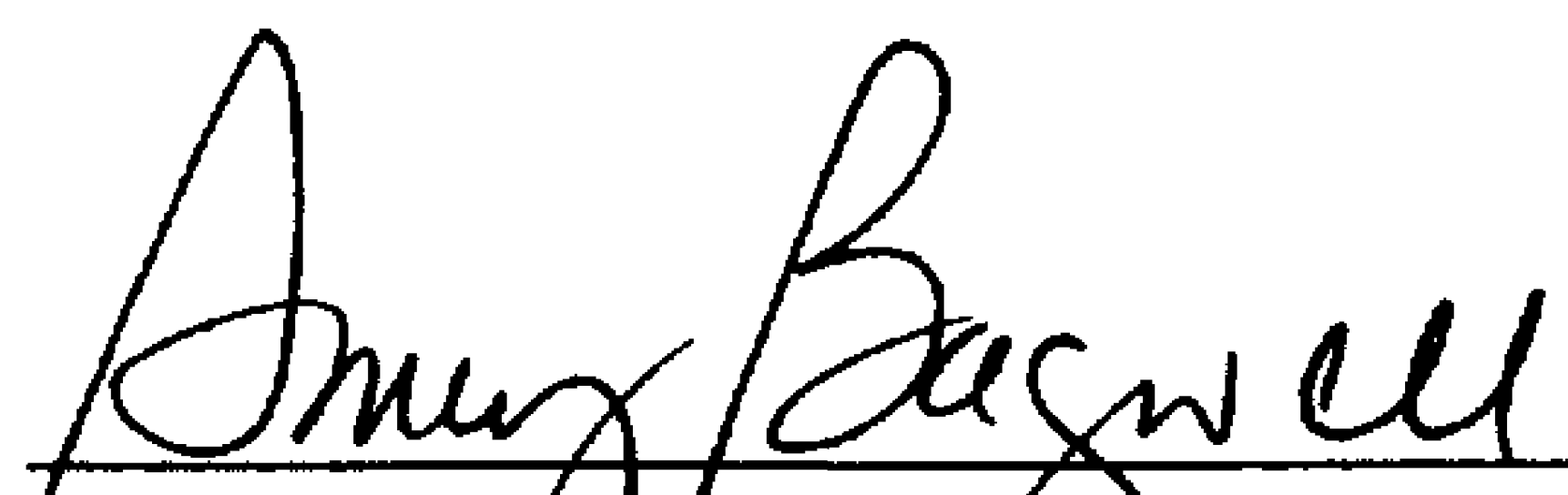
Ship Date: 6/4/92

Order No.: 0012093-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.13</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.588</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.8</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>5.3</u>
Pan		10.0 Max.	<u>1.4</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>4</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200690

Regulars or Bags

Page _____ of _____ pages

Vinyl Sample Log

Date 12/1/91
Product Type 5385

Blend Number	Time By	To	Sample No.	Moist.	Particle Size Distribution								HP Screen Set	Bulk G./C.C.	Dry Time	Cont. Black/Brown	Static Flow	L & N Values			CPA	Visc.		
					40	60	80	100	120	140	200	Pan						L	A	B	Glassy			
04836	1900 AD		1 +	—									24	588		0	20	50	80					
					0.00	2.10	16.90	13.70	9.29	4.61	2.66	0.72												
					0.0	4.2	33.8	27.4	18.7	9.2	5.3	1.4	P				566	4.8	7.6	100		15	-0.05	2.06
			1	.12												6 7						.926		
			4	.10												6 13						.921		
			7	.13												5 7						RVCm .438		
			10	.08												8 4								
			13	.10												6 6								
			16	.10												5 8								
			19	.12												6 12						WOOD?		

Allmond 2458

VAB.0001200691

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: ACFX 41169

Ship Date: June 15, 1992

Order No.: 0012458-000

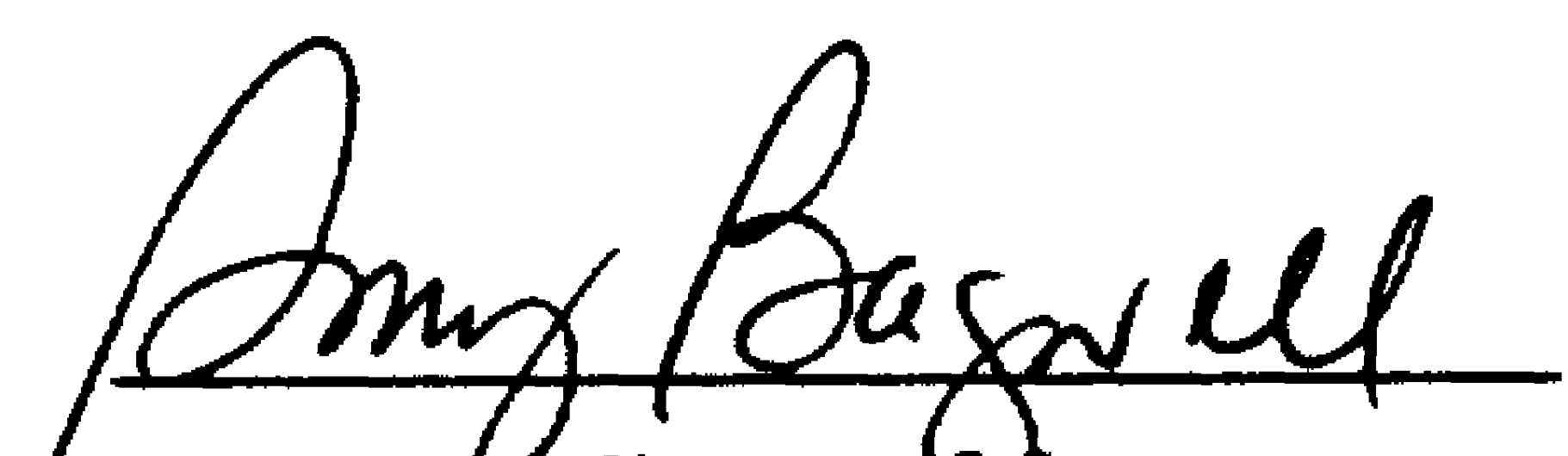
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	13.5
% on Pan		10.0 Max.	4.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.047
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200692

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-30-92 Product: 5385 Car No.: 41169
 Time Logged In: 1700 Logged In By: JS Silo(s): 676
 Ship Date: 6/15 Order No: 12458-000 Customer: Gencorp

no metal

Compartment	<i>0330</i> A <i>ASL</i>	<i>0330</i> CA <i>ASL</i>	CB	B
Sample From	Bottom	Bottom	Bottom	Bottom
Moisture %	.10	.06	.14	.12
Contamination BL	2	3	4	2
BR	5	9	13	11
Bulk Density	.576	.583	.578	.588
BD after Fluff				
Hard Particle 5	8			
7	36			
Viscosity	.925			
RVCM	.047			
40 Mesh/Glassies	0	0	0	0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.42</u>	<u>7.09</u>	<u>10.93</u>	<u>12.98</u>	<u>10.18</u>	<u>6.77</u>	<u>1.98</u>
%	<u>0.0</u>	<u>.8</u>	<u>14.2</u>	<u>21.9</u>	<u>25.2</u>	<u>20.4</u>	<u>13.5</u>	<u>4.0</u>

Drytime: 5.0 Static Flow: 0 / 10.8 Avg. Microns: 140.4

Color L: 100.99 a .12 b 1.65

Technician: CS & JS

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 22, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: VIPX 45901

Ship Date: June 19, 1992

Order No.: 0012458-003

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.3
% on Pan		10.0 Max.	2.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.064
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200694

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-19-92Product: 5385Car No.: 45901Time Logged In: 0600Logged In By: CESilo(s): 676, 677Ship Date: 6/19Order No: 12458-003Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.15		.12	
Contamination	BL		5		7		12	
	BR	1	3		3		4	
Bulk Density	.582		.583		.577		.580	
BD after Fluff								
Hard Particle 5	18							
7	2nd							
Viscosity	.927							
RVCM	.064							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.73</u>	<u>12.52</u>	<u>15.24</u>	<u>11.00</u>	<u>5.89</u>	<u>3.63</u>	<u>.99</u>
%	<u>0.0</u>	<u>1.5</u>	<u>25.0</u>	<u>30.5</u>	<u>21.9</u>	<u>11.8</u>	<u>7.3</u>	<u>2.0</u>

Drytime: 5.0Static Flow: 0 / 8.2Avg. Microns: 159.1Color L: 100.11 a .18 b 1.15Technician: MCH

VAB.0001200695

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 22, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: VIPX 45796

Ship Date: June 19, 1992

Order No.: 0012458-002

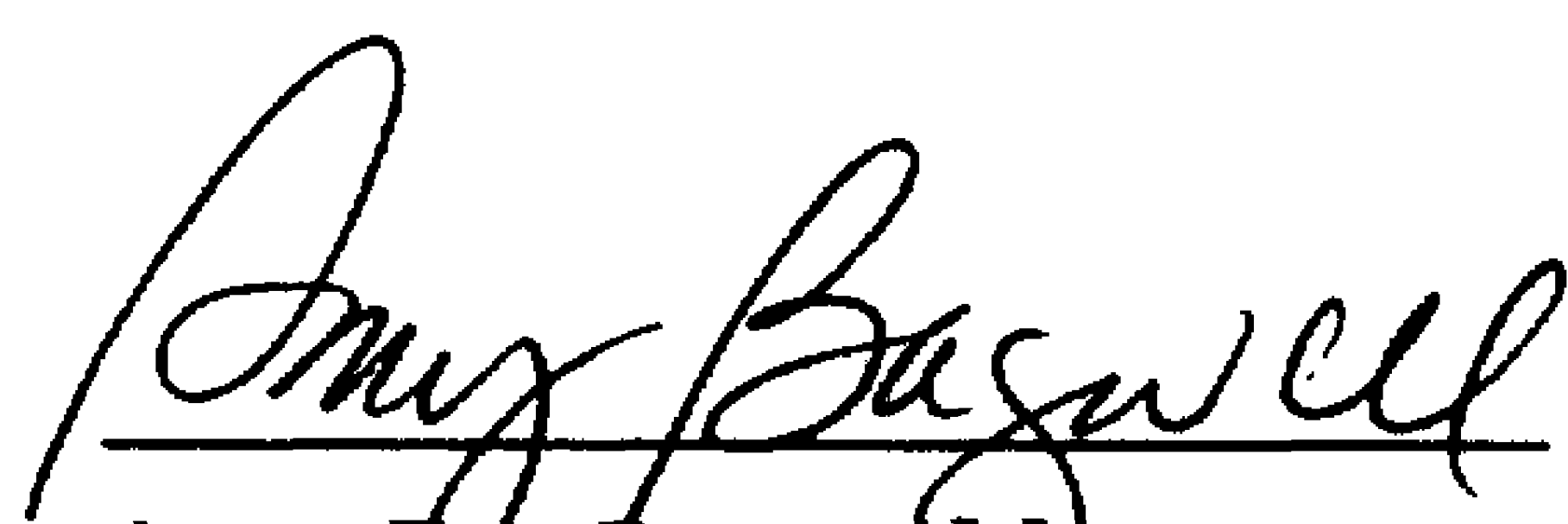
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	6.6
% on Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.142
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy R. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200696

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 6-18-92 Product: 5385 Car No.: 45796
 Time Logged In: 1600 Logged In By: M.T Silo(s): 676
 Ship Date: 6/19 Order No: 12458-002 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.03		.05		.05	
Contamination	BL							
	BR							
Bulk Density	.586		.584		.577		.577	
BD after Fluff								
Hard Particle 5	31							
7	2.55							
Viscosity	.926							
RVCM	.142							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>22</u>	<u>1.45</u>	<u>14.35</u>	<u>14.20</u>	<u>10.09</u>	<u>5.14</u>	<u>3.28</u>	<u>.89</u>
% P	<u>00</u>	<u>2.9</u>	<u>28.7</u>	<u>28.4</u>	<u>21.3</u>	<u>10.3</u>	<u>6.6</u>	<u>1.8</u>

Drytime: 4.8 Static Flow: 0.18.7 Avg. Microns: 165.1

Color L: 100.85 a 0.14 b 1.94

Technician: M.T & RH

VAB.0001200697

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 23, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: PLWX 44723

Ship Date: June 18, 1992

Order No.: 0012458-001

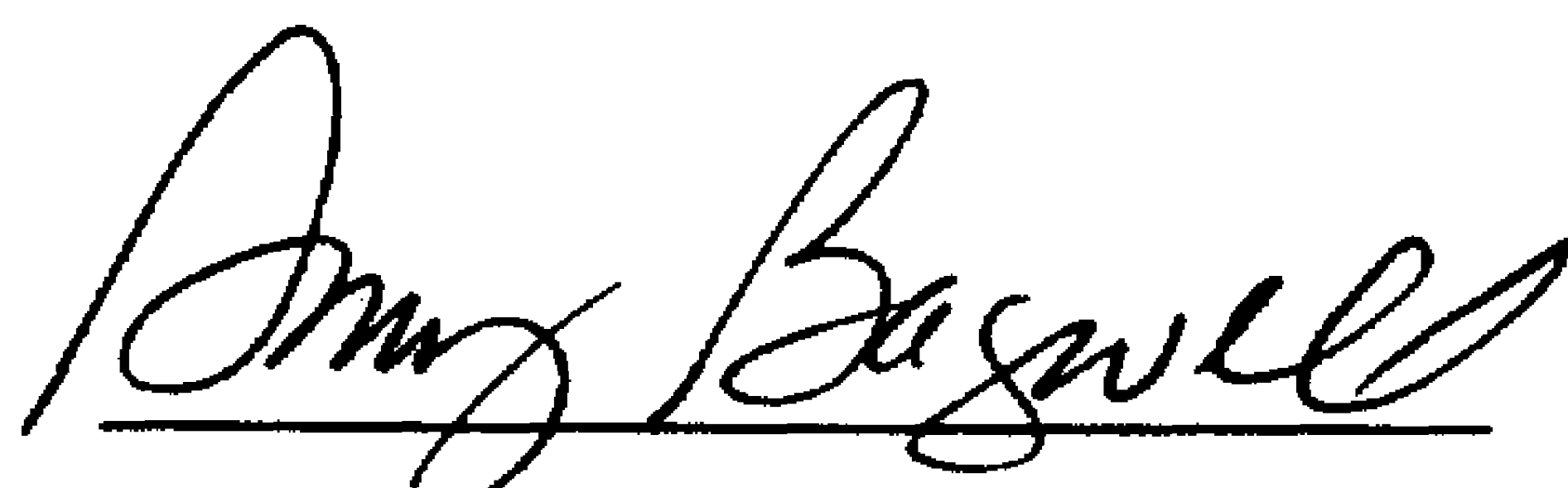
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.591
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.5
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.3
% on Pan		10.0 Max.	6.5
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	6
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.073
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200698

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-1-92Product: 5385Car No.: 44723Time Logged In: 0610Logged In By: TESilo(s): 676-677-685Ship Date: 6/18/92Order No: 0012458-001Customer: CencapNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.18		.17		.18	
Contamination	BL		6		6		5	
	BR		9		7		11	
Bulk Density	.584		.588		.593		.598	
BD after Fluff	.578		.578		.582		.598	
Hard Particle 5	8							
7	6102							
Viscosity	924							
RVCM	.073							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.53	9.60	13.12	11.67	6.98	5.16	3.25
%	0.0	1.1	19.2	26.2	23.1	13.6	10.3	6.5

Drytime: 5.5Static Flow: 0 / 10.1 Avg. Microns: 146.4Color L: 100.70 a 0.12 b 1.81Technician: J.T.HDL

VAB.0001200699

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: VIPX 45797

Ship Date: June 22, 1992

Order No.: 0012458-004

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.08
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.574
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.4
% on Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	1	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.041
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200700

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

VIPX

Load Date: 6-19-92Product: 5385Car No.: 45797Time Logged In: 2315Logged In By: MSSilo(s): 674, 677Ship Date: 6/22/92Order No: 00/2458-009Customer: Concop

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.08		.05		.05	
Contamination	BL							
	BR							
	4	—	5	—	4	—	3	—
	8		12		10		9	
Bulk Density	.574		.577		.568		.576	
BD after Fluff								
Hard Particle	5	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—
Viscosity	.931							
RVCM	.041							
40 Mesh/Glassies		0		1		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.65</u>	<u>8.92</u>	<u>13.88</u>	<u>12.27</u>	<u>7.28</u>	<u>5.22</u>	<u>1.33</u>
% P	<u>0.0</u>	<u>1.3</u>	<u>17.8</u>	<u>27.8</u>	<u>25.4</u>	<u>14.6</u>	<u>10.4</u>	<u>2.7</u>

Drytime: 48Static Flow: 0 110.3Avg. Microns: 149.7Color L: 100.75 a 0.04 b 1.77Technician: M. T. & R. H.

VAB.0001200701

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: VIPX 45838

Ship Date: June 22, 1992

Order No.: 0012458-005

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.579
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.0
% on Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.074
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200702

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-19-92Product: 5385Car No.: 45838Time Logged In: 11:30Logged In By: M.T.Silo(s): 676, 677Ship Date: 6/22/92Order No: 002458-005Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.11		.10		.14	
Contamination BL	<u>15</u>	—	<u>13</u>	—	<u>7</u>	—	<u>6</u>	—
BR	<u>4</u>		<u>2</u>		<u>4</u>		<u>3</u>	
Bulk Density	.583		.580		.576		.576	
BD after Fluff								
Hard Particle 5	<u>18</u>	—	—	—	—	—	—	—
7	<u>2 MB</u>							
Viscosity	.930							
RVCM	.074							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.72</u>	<u>11.11</u>	<u>14.44</u>	<u>11.51</u>	<u>6.40</u>	<u>4.52</u>	<u>1.16</u>
%	<u>0.0</u>	<u>1.4</u>	<u>22.2</u>	<u>28.9</u>	<u>23.4</u>	<u>12.8</u>	<u>9.0</u>	<u>2.3</u>

Drytime: 4.9Static Flow: 0 17.9Avg. Microns: 155.0Color L: 100.31 a .14 b 1.74Technician: M. G. H. H.

VAB.0001200703

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 6/25/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T377

Ship Date: 6/26/92

Order No.: 0012897-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.08</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.576</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.1</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>7.0</u>
Pan		10.0 Max.	<u>2.1</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

H. Ashley
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200704

PVC BULK TRAILER ANALYSIS

Date 6/25/92 Product 5385 Trailer Number T377
 Customer GENCO-AP Silo 676 Time 0100
 Technician HA + RH NO METAL Order No. 0012897-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.08</u>		1. <u>4/2</u>		1. <u>38</u> <u>3HA</u>	1. <u>.576</u>	1. <u>5.1</u>	L = <u>100.27</u> A = <u>-0.02</u> B = <u>1.92</u>		<u>Flow</u> <u>7.9</u>
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.88</u>	<u>13.81</u>	<u>15.03</u>	<u>10.31</u>	<u>5.47</u>	<u>3.52</u>	<u>1.06</u>	
% on Mesh	<u>0.0</u>	<u>1.8</u>	<u>22.6</u>	<u>30.1</u>	<u>20.5</u>	<u>10.9</u>	<u>7.0</u>	<u>2.1</u>	<u>0</u>

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 7/2/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04931

Attention: Plant Chemist

Trailer No.: 480288

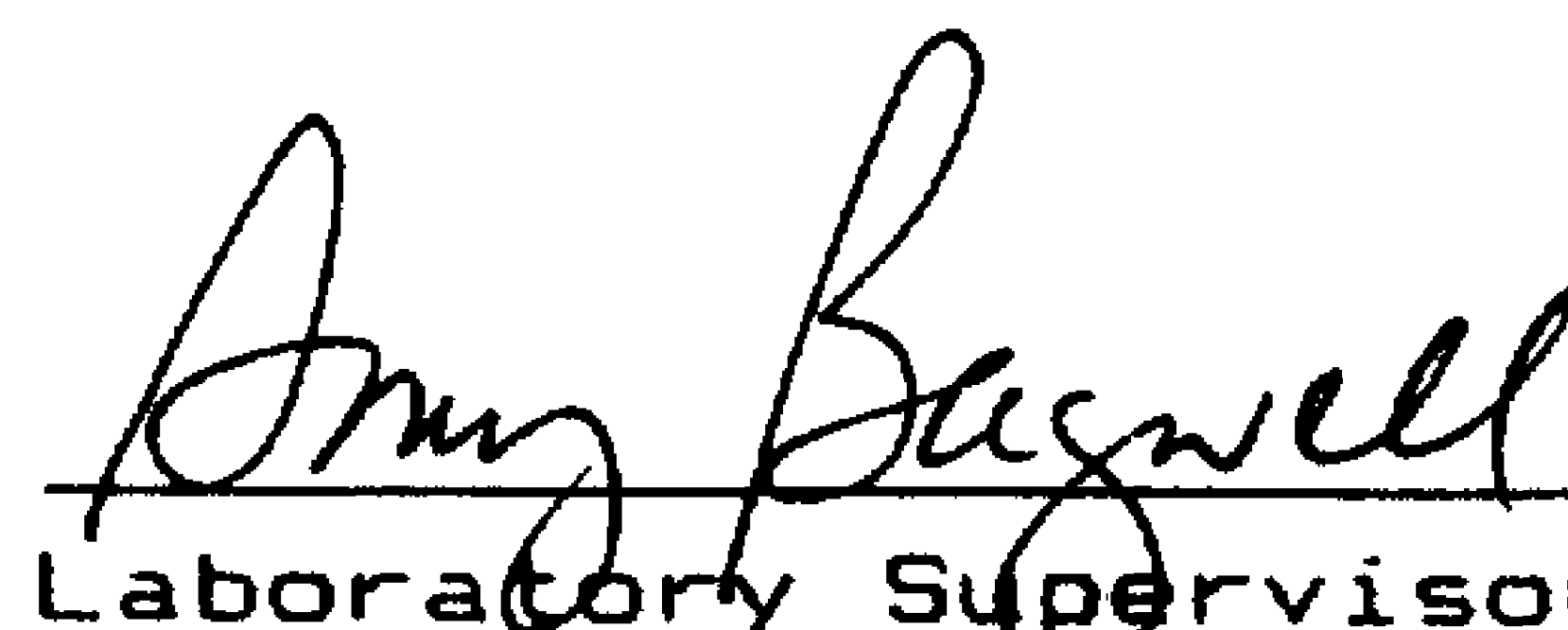
Ship Date: 6/29/92

Order No.: 0012941-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.09</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.584</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.1</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>6.9</u>
Pan		10.0 Max.	<u>2.1</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.91</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200706

RESIN BAG BLEND

BLEND NO: 04931

PRODUCT: 5385

DATE: 4-2-92

TIME/TESTED BY: 0300/R31

Avg. Microns, 5225/5325/5415: _____

SKID NO.	% MOIST	BLK/BRN CONT	PARTICLE SIZE DISTRIBUTION								BULK DENS	S/T MIN. H/P	DRY TIME	STATIC FLOW	C O L O R			CPA	% GLASSY	VISC.	RVCM
			40	60	80	100	120	140	200	PAN					L	A	B				
1-4	SKID		0.00	1.34	15.18	13.80	10.11	5.44	3.46	1.04		8		0							
COMP. SAMPLES			0.0	2.7	30.4	27.6	19.4	10.9	6.9	2.1	.584	2.0	5.1	9.2	180.50	0.02	1.70				.051
NO. 1	.09	3/4																		.917	
NO. 4	.08	2/4																		.910	
NO. 7																					
NO. 10																					
NO. 13																					
NO. 16																					
NO. 19																					

9,000#

VAB.0001200707

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 8, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45885

Ship Date: July 3, 1992

Order No.: 0013275-000

VISTA

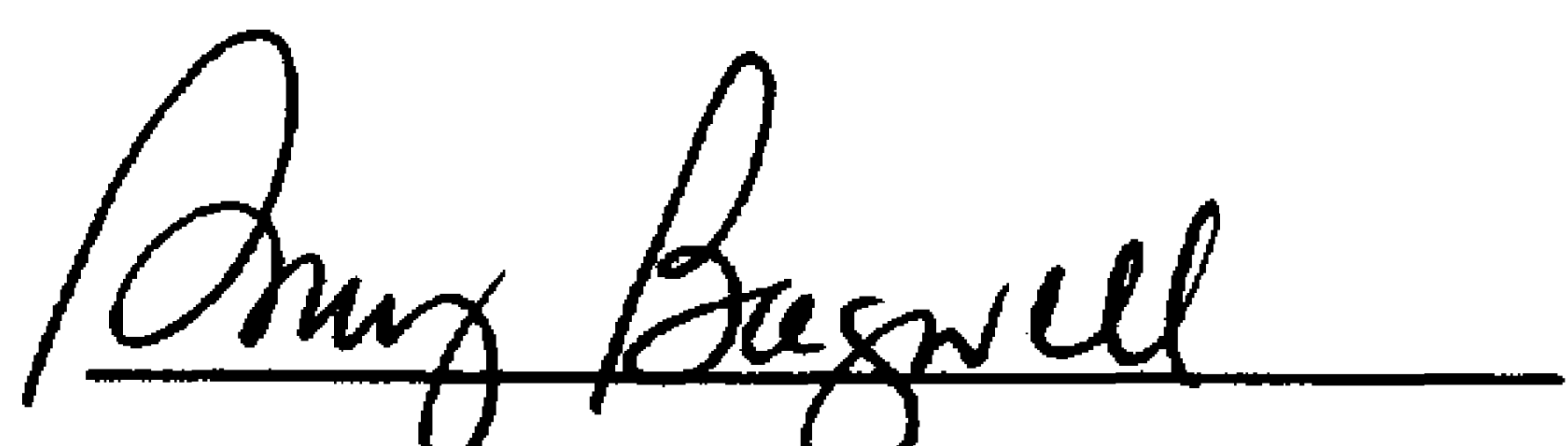
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.1
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.3
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.105
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200708

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-20-92Product: 5385Car No.: 45885Time Logged In: 1400Logged In By: M.TSilo(s): 676-677Ship Date: 7/3/92Order No: 0013275-000Customer: Gencorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.14		.14		.15	
Contamination	BL <u>2</u>	—	18	—	9	—	11	—
	BR <u>3</u>		5		2		9	
Bulk Density	.572		.579		.575		.580	
BD after Fluff								
Hard Particle 5	<u>12</u>	—	—	—	—	—	—	—
7	<u>2MB</u>							
Viscosity	.927							
RVCM	.105							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.92</u>	<u>10.90</u>	<u>14.80</u>	<u>11.68</u>	<u>6.40</u>	<u>4.13</u>	<u>1.07</u>
%	<u>0.0</u>	<u>1.8</u>	<u>21.8</u>	<u>29.6</u>	<u>23.6</u>	<u>12.8</u>	<u>8.3</u>	<u>2.1</u>

Drytime: 5.1Static Flow: 0 / 8.1Avg. Microns: 156.2Color L: 99.85 a -18 b 2.13Technician: MA + HA

VAB.0001200709

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 10, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45833

Ship Date: July 8, 1992

Order No.: 0013315-001

VISTA

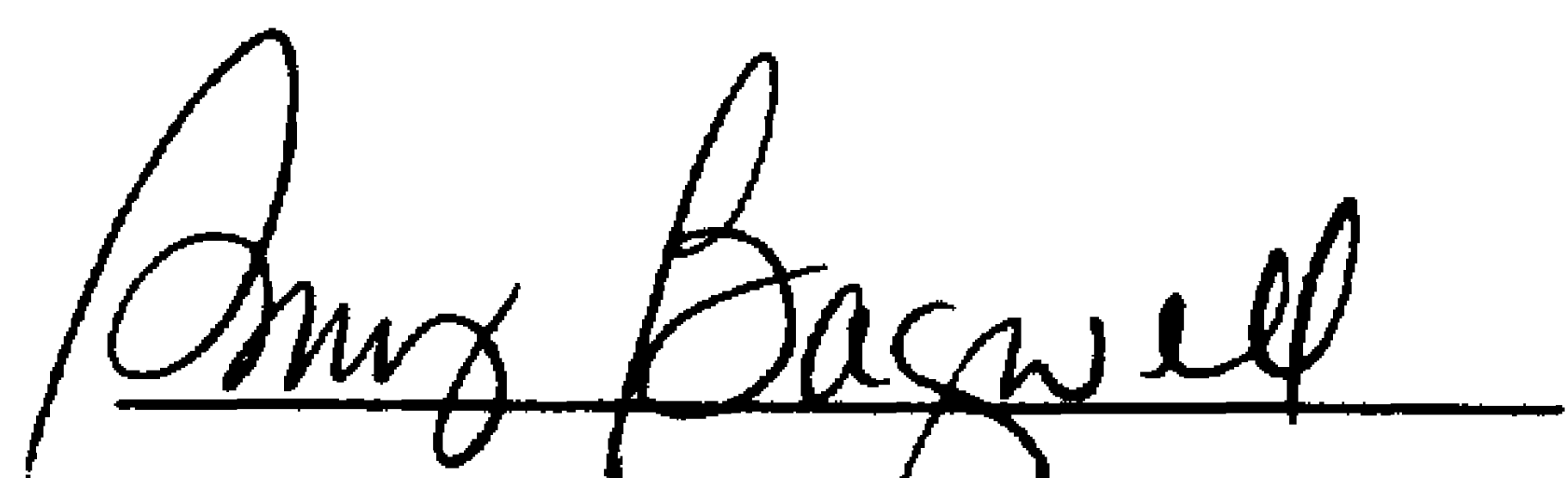
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	6.1
% on Pan		10.0 Max.	2.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	1	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.053
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200710

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-3-92Product: 5385Car No.: 45833Time Logged In: 1500Logged In By: M.T.Silo(s): 626/77/85Ship Date: 7/8/92Order No: 13315-001Customer: GenCorpNo Meth L

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.12		.17		.18	
Contamination	BL							
	BR							
Bulk Density	.582		.576		.572		.575	
BD after Fluff								
Hard Particle 5	15							
7	3 R.A.							
Viscosity	.938							
RVCM	.053							
40 Mesh/Glassies	0		0		1		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.37</u>	<u>17.10</u>	<u>14.00</u>	<u>9.00</u>	<u>4.54</u>	<u>3.04</u>	<u>1.00</u>
%	<u>0.0</u>	<u>2.7</u>	<u>34.2</u>	<u>28.0</u>	<u>17.9</u>	<u>9.1</u>	<u>6.1</u>	<u>2.0</u>

Drytime: 4.9Static Flow: 0 / 7.8Avg. Microns: 169.1Color L: 100.64 a -0.17 b 1.74Technician: P.T. + H.A.

VAB.0001200711

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 10, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

VISTA

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 43431

Ship Date: July 7, 1992

Order No.: 0013315-000

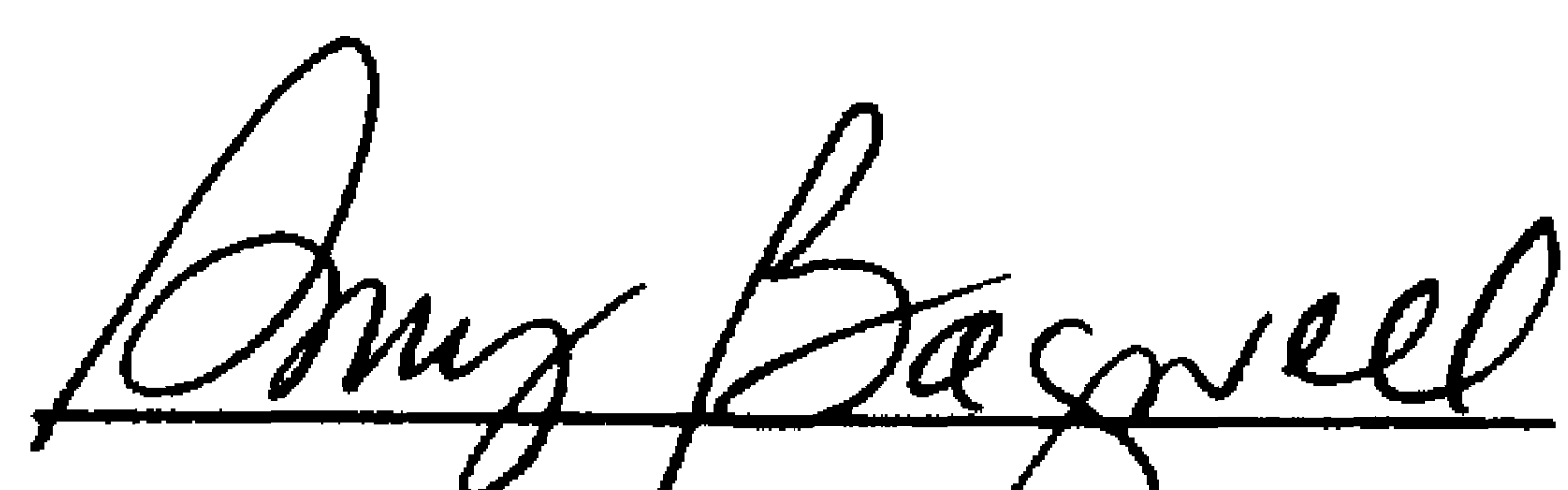
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.577
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	5.9
% on Pan		10.0 Max.	1.9
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.225
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200712

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-3-92Product: 5385Car No.: 43431Time Logged In: 0600Logged In By: ESSilo(s): 676, 677, 685Ship Date: 7/7/92Order No: 0013315-000Customer: Gen corpNO metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.03		.04		.03	
Contamination ^{BL} ^{BR}	<u>6</u> <u>8</u>	—	<u>4</u> <u>7</u>	—	<u>6</u> <u>10</u>	—	<u>5</u> <u>18</u>	—
Bulk Density	<u>.579</u>		<u>.571</u>		<u>.579</u>		<u>.579</u>	
BD after Fluff								
Hard Particle 5 7	<u>10</u> <u>2 ml</u>	—	—	—	—	—	—	—
Viscosity	<u>943</u>							
RVCM	<u>.225</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.53</u>	<u>18.44</u>	<u>13.84</u>	<u>8.87</u>	<u>4.48</u>	<u>2.94</u>	<u>0.95</u>
% P	<u>0.0</u>	<u>1.1</u>	<u>36.9</u>	<u>27.7</u>	<u>17.5</u>	<u>9.0</u>	<u>5.9</u>	<u>1.9</u>

Drytime: 4.8Static Flow: 0, 8.7Avg. Microns: 168.1Color L: 100.42 a 0.03 b 1.80Technician: MT & RM

VAB.0001200713

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 15, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

VISTA

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45910

Ship Date: July 10, 1992

Order No.: 0013315-002

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.11
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.566
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.6
% on Pan		10.0 Max.	3.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.050
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200714

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-9-92Product: 5385Car No.: 45910Time Logged In: 0400Logged In By: M.TSilo(s): 676-677-625Ship Date: 7/10Order No: 0013315-002Customer: GencorpNo metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.03		.05		.06	
Contamination	BL		71		3		2	
	BR		7		5		9	
Bulk Density	.568		.563		.568		.565	
BD after Fluff								
Hard Particle 5	14							
7	56							
Viscosity	.942							
RVCM	.050							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.93</u>	<u>13.09</u>	<u>14.31</u>	<u>10.16</u>	<u>6.42</u>	<u>4.31</u>	<u>1.50</u>
%	<u>0.0</u>	<u>1.7</u>	<u>26.2</u>	<u>28.6</u>	<u>19.1</u>	<u>12.8</u>	<u>8.6</u>	<u>3.0</u>

Drytime: 4.9Static Flow: 0, 11.2 Avg. Microns: 158.1Color L: 100.68 a 0.05 b 1.86Technician: Co + ES

VAB.0001200715

CERTIFICATE OF ANALYSIS

Date: July 15, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46526

Ship Date: July 13, 1992

Order No.: 0013315-003

VISTA

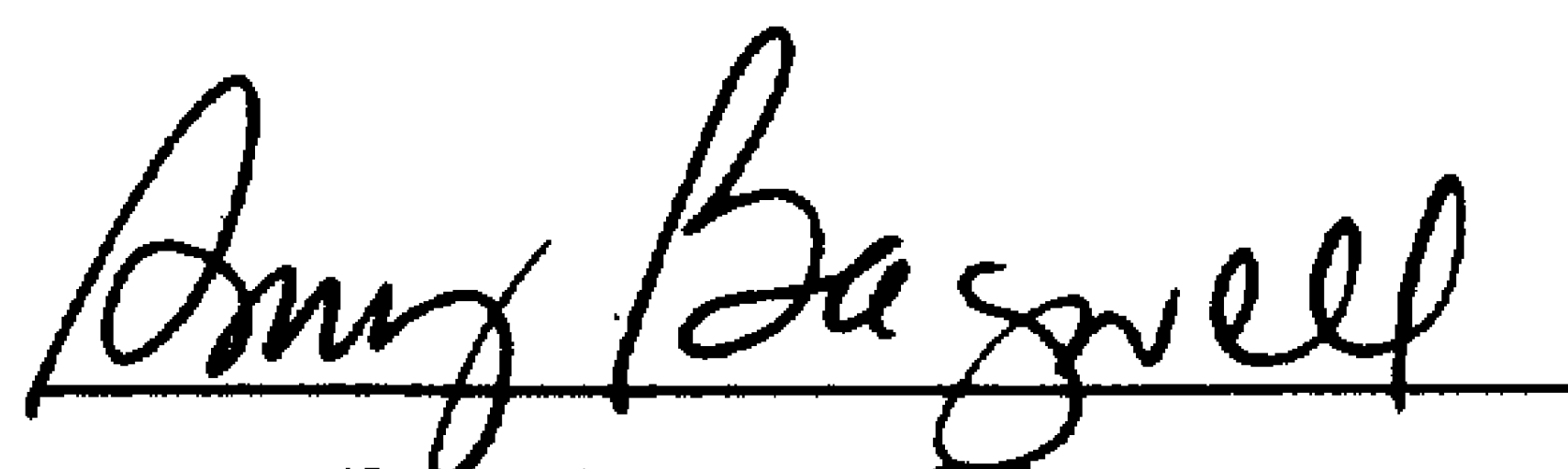
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.578
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.1
% on Pan		10.0 Max.	3.2
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.036
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200716

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 7-10-92Product: 5385Car No.: 46526Time Logged In: 0300Logged In By: D.T.Silo(s): 676, 677Ship Date: 7/13Order No: 13315-003Customer: GenCorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.13		.14		.13	
Contamination	BL							
	BR							
Bulk Density	.573		.586		.573		.582	
BD after Fluff								
Hard Particle	5							
	7							
Viscosity	.935							
RVCM	.036							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.73</u>	<u>12.61</u>	<u>14.06</u>	<u>10.66</u>	<u>5.94</u>	<u>4.55</u>	<u>1.60</u>
%	<u>0.0</u>	<u>1.5</u>	<u>25.2</u>	<u>28.1</u>	<u>21.0</u>	<u>11.9</u>	<u>9.1</u>	<u>3.2</u>

Drytime: 46.9Static Flow: 0/10.0

Avg. Microns: _____

Color L: 100.66 a 0.06 b 1.86Technician: Co & CS

VAB.0001200717

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 7/16/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04867

Attention: Plant Chemist

Trailer No.: T-480031

Ship Date: 7/15/92

Order No.: 0013567-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.09</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.580</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>16.0</u>
Pan		10.0 Max.	<u>2.9</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>8</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200718

Bag Blend

Regulars or Bags

Page ____ of ____ pages

Vinyl Sample Log

Date 1-21-92

Product Type 5385

Blend Number	Time By	To	Sample No.	Moist.	Particle Size Distribution								HP Screen Set	Bulk G./C.C.	Dry Time	Cont. Black Brown	Static Flow	L & N Values			CPA Glassy	Visc.
					40	60	80	100	120	140	200	Pan						L	A	B		
04866	0045 MTRES	SLO # B	1	-									22/8DL	.580		-	0	20	50	80		
			+																			
			10		0.00	0.02	3.15	11.37	15.50	10.49	8.01	1.45	P	.558	5.0	-	128	100.10	0.03	1.89		
			m/c															20	50	80		
			1	.04												3/7						922
			m/c															20	50	80		
			4	.04												3/10						922
			m/c															20	50	80		
			7	.05												2/7		Rvem .054				
			m/c															20	50	80		
			10	.01												3/8						
			m/c																			
			13	.04												1/7						
			m/c															20	50	80		
			16	.09												2/6						
			m/c																			
			19	.01												3/9						

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 20, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46557

Ship Date: July 16, 1992

Order No.: 0013315-004

VISTA

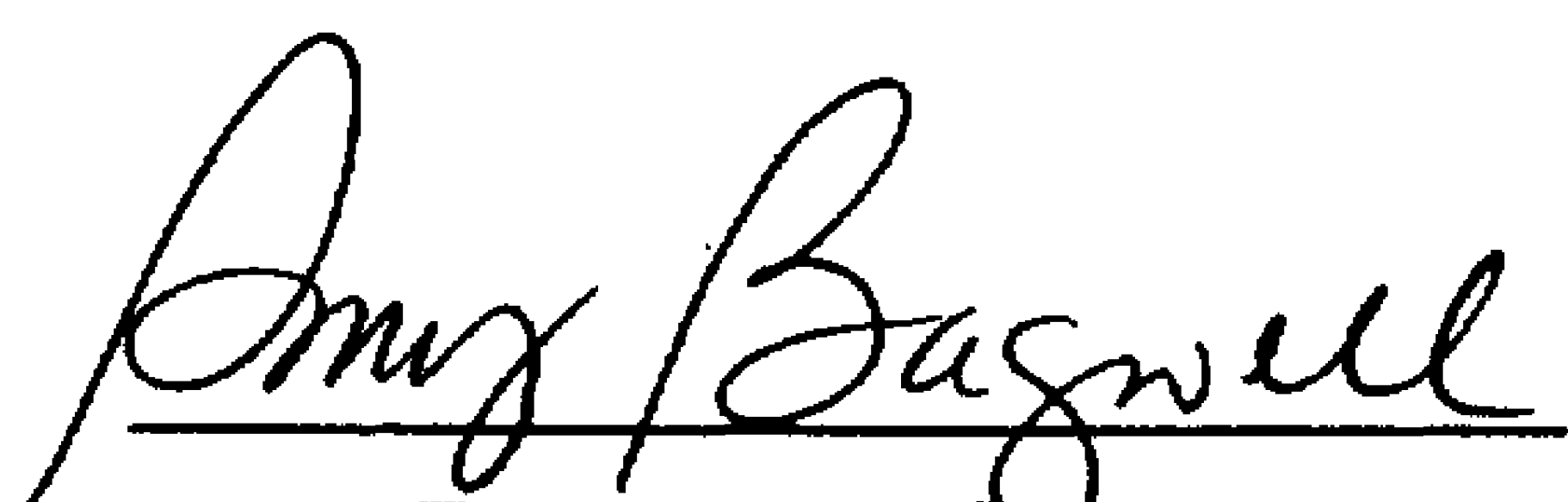
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.577
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.3
% on Pan		10.0 Max.	2.8
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	0
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.061
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200720

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-14-92Product: 5385Car No.: 46557Time Logged In: 1100Logged In By: MASilo(s): 676, 677, 685Ship Date: 7/16Order No: 13315-004Customer: Goncarno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.17		.18	
Contamination	BL							
	BR							
	<u>19</u>	<u>4</u>	<u>26</u>	<u>9</u>	<u>26</u>	<u>9</u>	<u>28</u>	<u>18</u>
Bulk Density	.579		.580		.575		.576	
BD after Fluff								
Hard Particle 5	<u>50</u>							
7	<u>8</u>							
Viscosity	.930							
RVCM	.061							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.62</u>	<u>13.20</u>	<u>14.07</u>	<u>10.14</u>	<u>5.67</u>	<u>4.65</u>	<u>1.41</u>
%	<u>0.0</u>	<u>1.2</u>	<u>26.4</u>	<u>28.1</u>	<u>20.9</u>	<u>11.3</u>	<u>9.3</u>	<u>2.8</u>

Drytime: 4.9Static Flow: 0 17.9 Avg. Microns: 157.4Color L: 100.39 a -0.07 b 1.75

VAB.0001200721

Technician: MD + HA

CERTIFICATE OF ANALYSIS

Date: July 20, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46566

Ship Date: July 17, 1992

Order No.: 0013315-005

VISTA

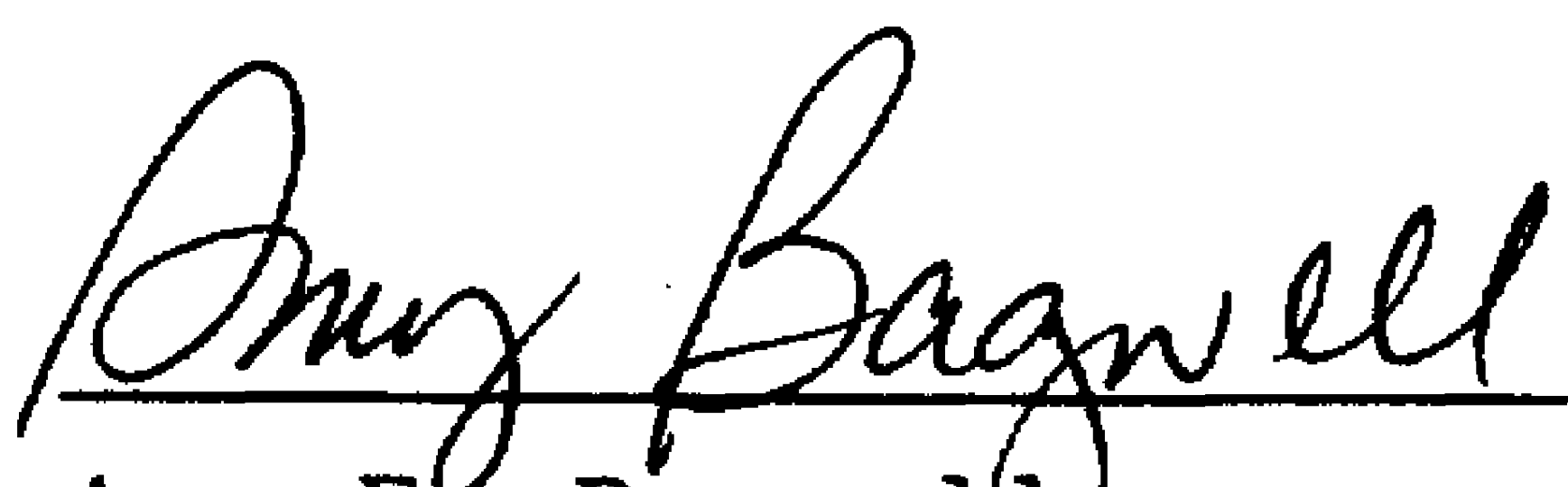
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	11.0
% on Pan		10.0 Max.	3.6
40 Mesh Glassies	ABR-6	5 Max. Avg.*	2

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
3	3	0	3

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.073
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200722

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-15-92Product: 5385Car No.: 46566Time Logged In: 1830Logged In By: MMSilo(s): 676, 677, 685Ship Date: 7/17Order No: 13315-005Customer: Gencorp

No metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.04		.02	
Contamination	BL	<u>6</u>	<u>7</u>		<u>4</u>		<u>8</u>	
	BR	<u>8</u>	<u>9</u>		<u>8</u>		<u>8</u>	
Bulk Density	.577		.576		.588		.584	
BD after Fluff								
Hard Particle 5	<u>28</u>							
7	<u>2 MB</u>							
Viscosity	.927							
RVCM	.073							
40 Mesh/Glassies		<u>3</u>		<u>3</u>	<u>0</u>			<u>3</u>

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.66</u>	<u>11.72</u>	<u>13.54</u>	<u>10.45</u>	<u>6.38</u>	<u>5.48</u>	<u>1.82</u>
%	<u>0.0</u>	<u>1.3</u>	<u>22.4</u>	<u>27.1</u>	<u>21.8</u>	<u>12.8</u>	<u>10.0</u>	<u>3.6</u>

Drytime: 4.9 Static Flow: 0111.2 Avg. Microns: 152.3Color L: 100.81 a -0.04 b 1.66

VAB.0001200723

Technician: M.T. & R.H.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 23, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45760

Ship Date: July 20, 1992

Order No.: 0013315-006

VISTA

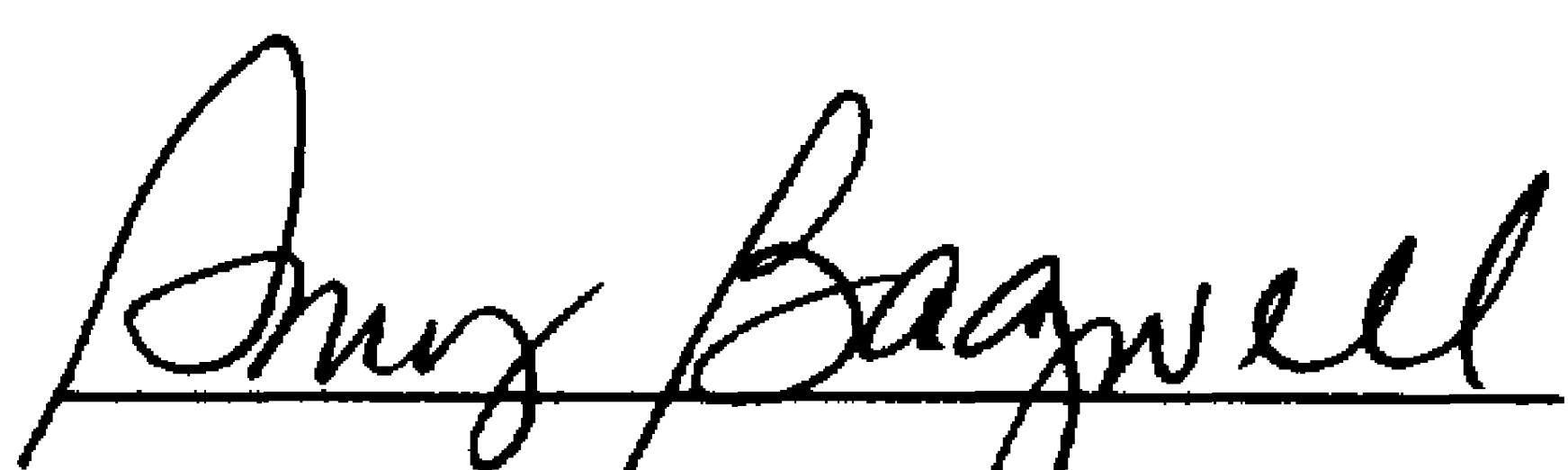
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.582
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	6.7
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.072
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200724

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-17-92Product: 5385Car No.: 45760Time Logged In: 1600Logged In By: M.TSilo(s): 676-77-85Ship Date: 7/20Order No: 13315-006Customer: Cumcorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.04		.03		.03	
Contamination	BL							
	BR							
	<u>3</u>	—	<u>4</u>	—	<u>3</u>	—	<u>2</u>	—
	<u>7</u>		<u>11</u>		<u>5</u>		<u>8</u>	
Bulk Density	.580		.577		.590		.580	
BD after Fluff								
Hard Particle 5	<u>20</u>	—	—	—	—	—	—	—
	<u>56</u>							
Viscosity	.934							
RVCM	.072							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.96</u>	<u>15.78</u>	<u>13.98</u>	<u>9.24</u>	<u>4.69</u>	<u>3.34</u>	<u>107</u>
%	<u>0.0</u>	<u>3.9</u>	<u>31.6</u>	<u>29.0</u>	<u>18.3</u>	<u>9.4</u>	<u>6.7</u>	<u>2.1</u>

Drytime: 4.9 Static Flow: 0 / 8.9 Avg. Microns: 169.0Color L: 100.41 a -.07 b 1.64Technician: Go HA

VAB.0001200725

CERTIFICATE OF ANALYSIS

Date: July 28, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 43431

Ship Date: July 24, 1992

Order No.: 0013315-008

VISTA

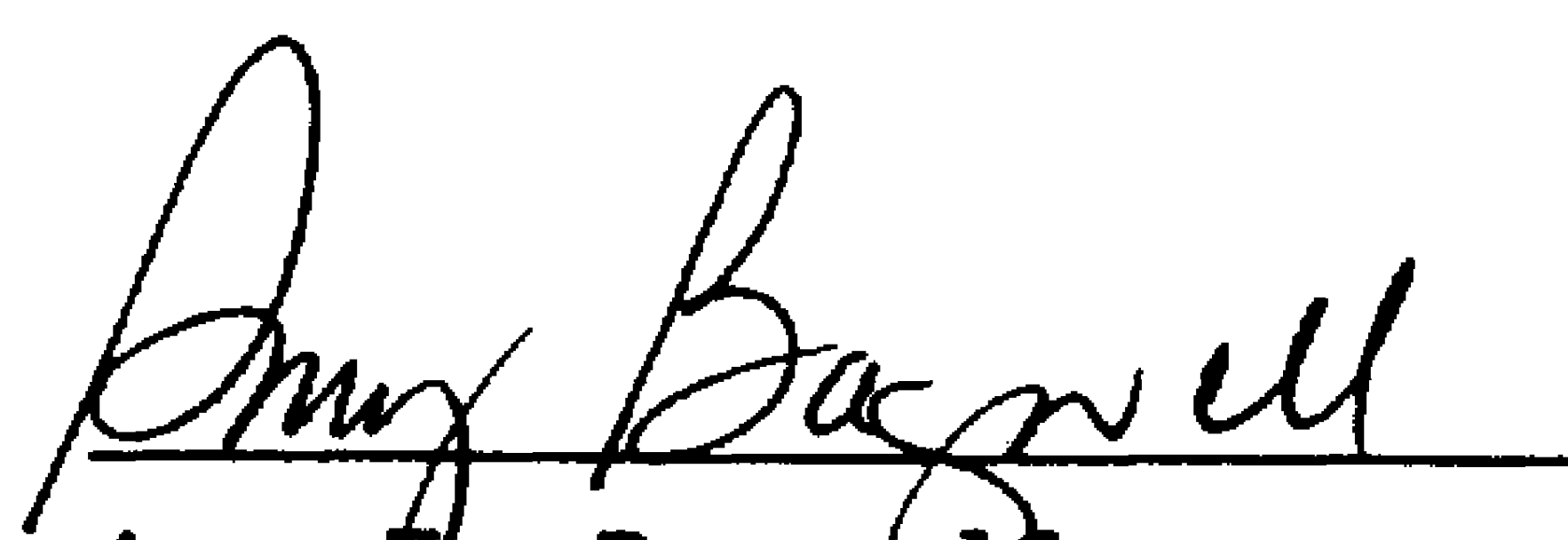
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.2
% on Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	6
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.042
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200726

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-20-92Product: 5385Car No.: 43431Time Logged In: 18⁰⁰Logged In By: D.J.Silo(s): 676+607Ship Date: 7/24Order No: 13315-008Customer: Concorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.12		.14	
Contamination	BL							
	BR							
	<u>11</u>	—	<u>14</u>	—	<u>2</u>	—	<u>2</u>	—
	<u>3</u>		<u>3</u>		<u>3</u>		<u>2</u>	
Bulk Density	.588		.576		.580		.579	
BD after Fluff								
Hard Particle 5	<u>50</u>	—	—	—	—	—	—	—
7	<u>6 MB</u>							
Viscosity	.930							
RVCM	.042							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.32</u>	<u>14.85</u>	<u>12.70</u>	<u>9.28</u>	<u>5.51</u>	<u>4.19</u>	<u>1.21</u>
%	<u>0.0</u>	<u>4.6</u>	<u>29.7</u>	<u>25.4</u>	<u>18.7</u>	<u>11.0</u>	<u>8.2</u>	<u>2.4</u>

Drytime: 4.9Static Flow: 0 / 8.0 Avg. Microns: 166.9Color L: 100.75 a .03 b 1.66

VAB.0001200727

Technician: M. H. H. A.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: GACX 73379

Ship Date: July 27, 1992

Order No.: 0013922-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.13
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.573
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.6
% on Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	7
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.047
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200728

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-23-92 Product: 5385 Car No.: 73379
 Time Logged In: 0500 Logged In By: M.T Silo(s): 676-77-85
 Ship Date: 7/27/92 Order No: 0013922-000 Customer: GACX

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.13		.12		.03	
Contamination	BL	2	4		6		4	
	BR	3	3		5		3	
Bulk Density	.570		.568		.581		.574	
BD after Fluff								
Hard Particle 5	50							
7	70							
Viscosity	.928							
RVCM	.047							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.03</u>	<u>15.91</u>	<u>12.50</u>	<u>8.84</u>	<u>5.07</u>	<u>4.29</u>	<u>1.34</u>
%	<u>0.0</u>	<u>4.1</u>	<u>31.8</u>	<u>25.0</u>	<u>17.7</u>	<u>10.1</u>	<u>8.6</u>	<u>2.7</u>

Drytime: 5.0 Static Flow: 0 112.0 Avg. Microns: 167.1

Color L: 99.80 a 0.20 b 2.34

VAB.0001200729

Technician: CB + Ed

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 30, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44676

Ship Date: July 29, 1992

Order No.: 0014233-000

VISTA

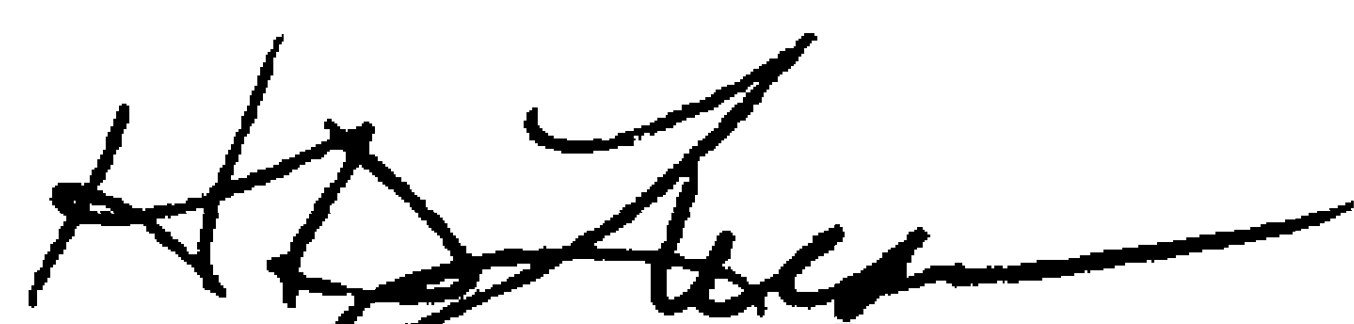
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.585
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	6.8
% on Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
1	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.362
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200730

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-27-92Product: 5385Car No.: PLWX 44676Time Logged In: 1730Logged In By: MASilo(s): 676, 677Ship Date: 7/29/92Order No: 0014233-000Customer: CencorpNO MEN

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.18		.18		.18	
Contamination	BL							
	BR							
	9	—	9	—	11	—	19	—
	2		2		3		3	
Bulk Density	.586		.588		.581		.586	
BD after Fluff								
Hard Particle 5	50	—	—	—	—	—	—	—
7	5 MOB							
Viscosity	.935							
RVCM	.362							
40 Mesh/Glassies	1		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	2.38	18.43	12.52	7.96	4.10	3.40	1.13
%	0.0	4.8	36.9	25.0	16.0	8.2	6.8	2.3

Drytime: 5.0Static Flow: 0 9.1Avg. Microns: 174.1Color L: 100.77 a -0.00 b 1.63Technician: P.O. + DL

VAB.0001200731

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 30, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45878

Ship Date: July 29, 1992

Order No.: 0013922-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.07
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.570
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.8
% on Pan		10.0 Max.	3.9
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	1	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	7
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.226
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200732

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

VIPX

Load Date: 7-24-92Product: 5385Car No.: 45878Time Logged In: 0200Logged In By: JS.Silo(s): 676, 77, 85Ship Date: 7/29/92Order No: 0013922-001Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.05		.04		.07	
Contamination	BL		7		11		7	
	BR		12		14		9	
Bulk Density	.585		.574		.560		.560	
BD after Fluff								
Hard Particle	5							
	7							
Viscosity	.935							
RVCM	.226							
40 Mesh/Glassies	0		0		✓		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.97</u>	<u>13.09</u>	<u>13.04</u>	<u>9.65</u>	<u>5.87</u>	<u>5.41</u>	<u>1.94</u>
%	<u>0.0</u>	<u>1.9</u>	<u>26.2</u>	<u>26.1</u>	<u>19.4</u>	<u>11.7</u>	<u>10.8</u>	<u>3.9</u>

Drytime: 3.0Static Flow: 0, 11.9 Avg. Microns: 156.2Color L: 99.94 a .08 b 1.72Technician: G & ES

VAB.0001200733

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-1-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-381

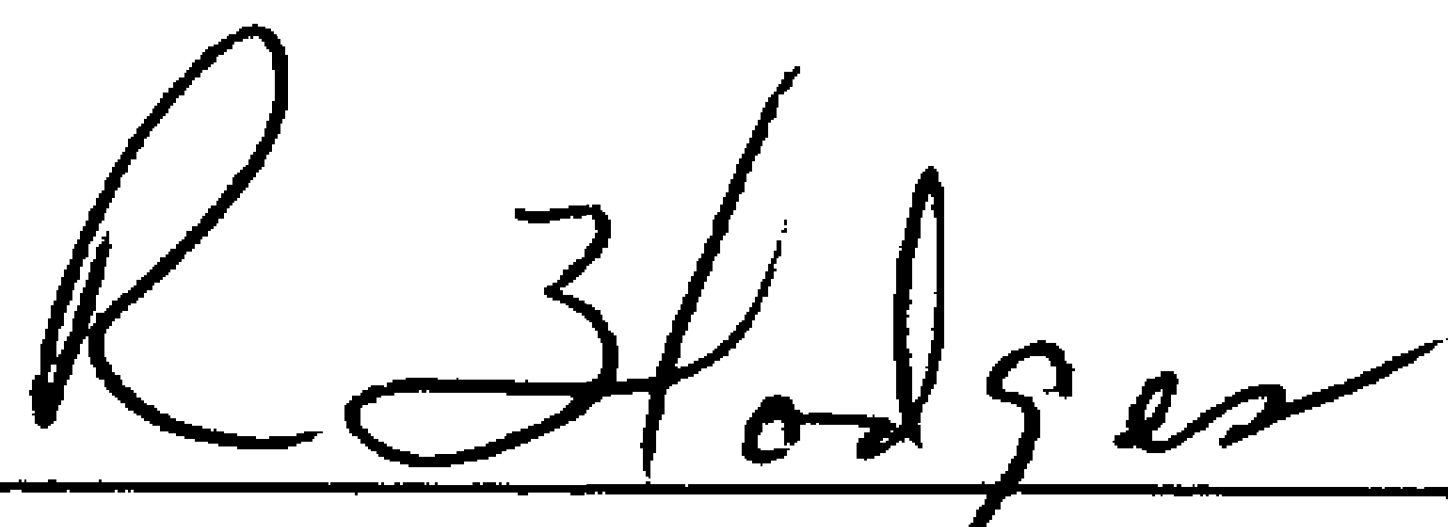
Ship Date: 8-1-92

Order No.: 0014384-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.09</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.570</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>5.4</u>
Pan		10.0 Max.	<u>2.1</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200734

PVC BULK TRAILER ANALYSIS

Date 7-31-92 Product 5385 Trailer Number T-381
 Customer Geneap Silo 677 Time 2230
 Technician MJ Order No. 0014384-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. .09		1. 3/6		1. 15/36	1. .570	1. 4.9	L = 100.47 A = -.02	Flow of 17.9	
	2.		2.		2.	2.	2.	B = 1.74		
MIDDLE	1.		1.		1.	1.	1.	L =	Glassies 0	
	2.		2.		2.	2.	2.	A = B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A = B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	.55	16.47	16.00	9.06	4.11	2.71	1.07	
% on Mesh	0.0	1.1	32.9	32.0	18.3	8.2	5.4	2.1	

Screen Analysis Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-1-92

VISTA

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

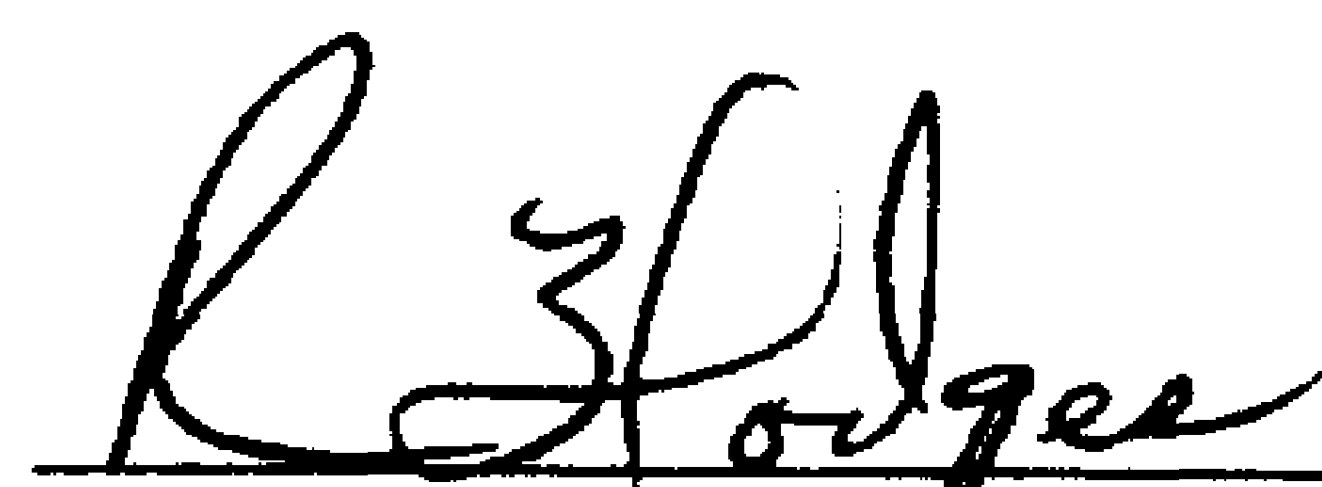
Trailer No.:

Ship Date: 8-1-92

Order No.: 0014384-001

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.05</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.565</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>6.9</u>
Pan		10.0 Max.	<u>1.9</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200736

PVC BULK TRAILER ANALYSIS

Date 8-1-92 Product 5385 Trailer Number T-381
 Customer GenCorp Silo 677 Time 11:30
 Technician RH Order No. 0014384-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RWCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>105</u>		1. <u>3</u>		1. <u>39</u>	1. <u>.565</u>	1. <u>5.0</u>	L = <u>100.68</u>		<u>0</u> <u>9.8</u>
	2.		2. <u>5</u>		2. <u>3</u>			A = <u>-0.08</u>		
MIDDLE	1.		1.		1.			L =	Glassies <u>0</u>	
	2.		2.		2.			A =		
END	1.		1.		1.			L =		
	2.		2.		2.			A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>6.0</u>	<u>0.80</u>	<u>14.61</u>	<u>16.00</u>	<u>16.35</u>	<u>4.51</u>	<u>3.46</u>	<u>.95</u>	
% on Mesh	<u>0.0</u>	<u>1.6</u>	<u>28.0</u>	<u>32.0</u>	<u>20.6</u>	<u>9.0</u>	<u>6.9</u>	<u>1.9</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

CERTIFICATE OF ANALYSIS

Date: August 3, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 46860

Ship Date: July 22, 1992

Order No.: 0013315-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.588
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.7
% on Pan		10.0 Max.	2.5
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.204
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200738

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 6-23-92 Product: 5385 Car No.: 46860
 Time Logged In: 0160 Logged In By: MH Silo(s): 676, 677
 Ship Date: 7/22/92 Order No: 13315-007 Customer: GenCorp

Compartment	<u>no metal</u> <u>677</u> <u>A</u>		<u>676</u> CA		<u>677</u> <u>CB</u>		<u>676</u> <u>B</u>	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11				.13		.17	
Contamination	BL							
	BR	<u>3</u> <u>1</u>	—	—	<u>10</u> <u>2</u>	—	<u>3</u> <u>1</u>	—
Bulk Density	.587				.590		.586	
BD after Fluff								
Hard Particle 5 7	<u>14</u> <u>2 MG</u>	—	—	—	—	—	—	—
Viscosity	.939							
RVCM	.204							
40 Mesh/Glassies	<u>0</u>				<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.24</u>	<u>9.77</u>	<u>14.65</u>	<u>12.02</u>	<u>6.98</u>	<u>4.87</u>	<u>1.27</u>
%	<u>0.0</u>	<u>.5</u>	<u>19.5</u>	<u>29.3</u>	<u>24.5</u>	<u>14.0</u>	<u>9.7</u>	<u>2.5</u>

Drytime: 4.9 Static Flow: 0 / 7.3 Avg. Microns: 150.5

Color L: 100.91 a .12 b 1.59

Technician: MH + HA

VAB.0001200739

CERTIFICATE OF ANALYSIS

Date: August 3, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 47525

Ship Date: July 30, 1992

Order No.: 0014233-001

VISTA

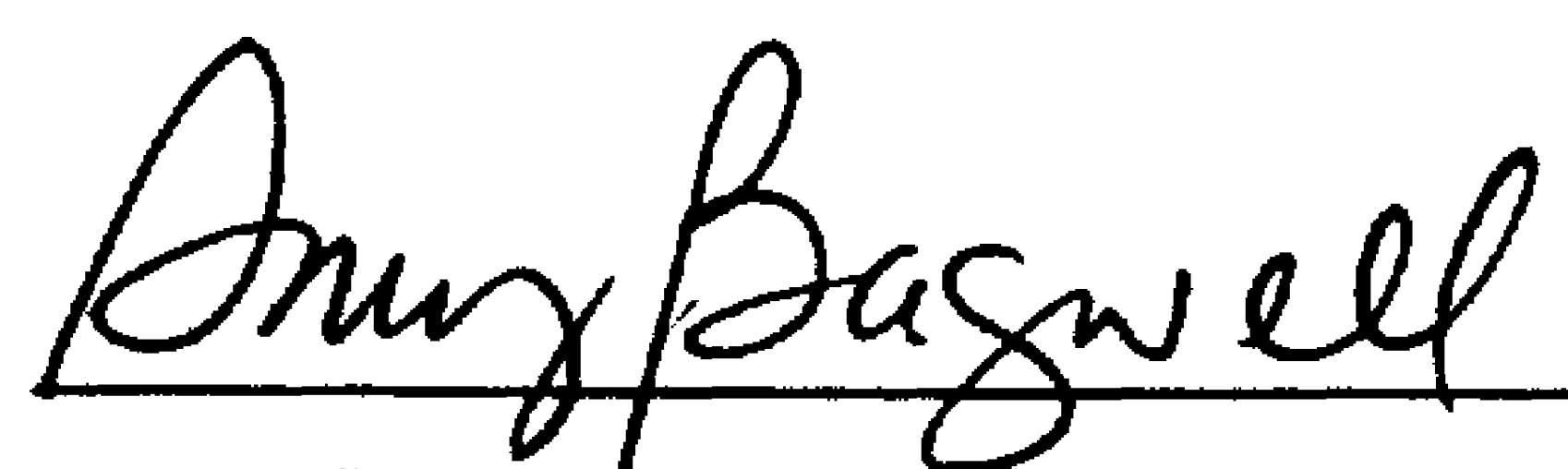
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.0
% on Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	6
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.027
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200740

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-29-92 Product: 5385 Car No.: 47525
 Time Logged In: 0600 Logged In By: EL Silo(s): 677 676
 Ship Date: 7/30/92 Order No: 0014233-001 Customer: GENCORP

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.13		.11		.16	
Contamination	BL			<i>resample</i>				
	BR							
Bulk Density	.573		.577		.576		.575	
BD after Fluff								
Hard Particle 5	50							
7	6.55							
Viscosity	.928							
RVCM	.027							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.43</u>	<u>18.58</u>	<u>12.91</u>	<u>8.05</u>	<u>4.29</u>	<u>3.52</u>	<u>1.14</u>
%	<u>0.0</u>	<u>2.9</u>	<u>37.2</u>	<u>25.8</u>	<u>16.2</u>	<u>8.6</u>	<u>7.0</u>	<u>2.3</u>

Drytime: 4.9 Static Flow: 0 17.8 Avg. Microns: 170.6

Color L: 100.78 a -.04 b 1.82

VAB.0001200741

Technician: M. H. H. H.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: August 3, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: GACX 73398

Ship Date: July 31, 1992

Order No.: 0013922-002

VISTA

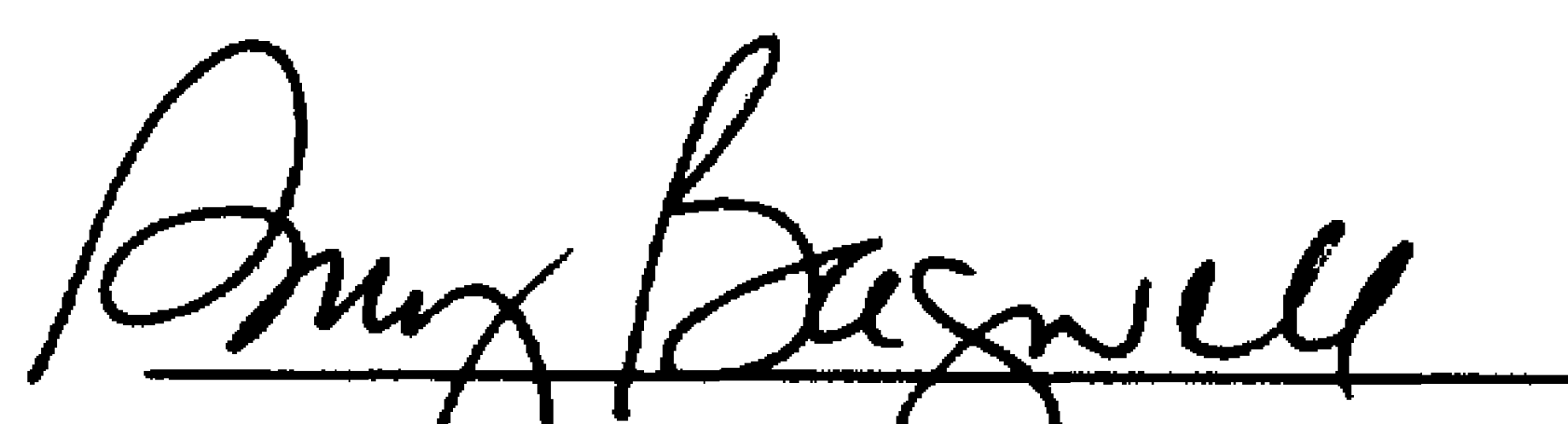
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.0
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	3

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	1

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.036
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200742

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-28-92Product: 5385Car No.: 73398Time Logged In: 1330Logged In By: MMSilo(s): 676, 677Ship Date: 7/31Order No: 13922-002Customer: 35~~Concay~~no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.15		.10	
Contamination	BL							
	BR							
	<u>6</u>	—	<u>4</u>	—	<u>8</u>	—	<u>8</u>	—
	<u>3</u>		<u>1</u>		<u>3</u>		<u>1</u>	
Bulk Density	.582		.579		.580		.576	
BD after Fluff	.586		.586		.584		.586	
Hard Particle 5	<u>50</u>	—	—	—	—	—	—	—
7	<u>575</u>							
Viscosity	.924							
RVCM	.036							
40 Mesh/Glassies	0		0		0		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.37</u>	<u>18.60</u>	<u>12.86</u>	<u>8.20</u>	<u>4.27</u>	<u>3.50</u>	<u>1.05</u>
%	<u>0.0</u>	<u>2.7</u>	<u>37.2</u>	<u>25.7</u>	<u>16.8</u>	<u>8.5</u>	<u>7.0</u>	<u>2.1</u>

Drytime: 5.0Static Flow: 0 17.6Avg. Microns: 170.4Color L: 100.73 a -0.04 b 1.74

VAB.0001200743

Technician: MSHAA

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-3-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-381

Ship Date: 8-3-92

Order No.: 0014429-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.03</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.562</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.8</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.00</u>
200 Mesh		NDS	<u>9.1</u>
Pan		10.0 Max.	<u>26</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

David Thompson
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200744

PVC BULK TRAILER ANALYSIS

Date 8-3-92 Product 5385 Trailer Number T-381
Customer Gencorp Silo 676+677 Time 1600-1645
Technician D.T. + HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>03</u>		1. <u>5/4</u>		1. <u>20</u> <u>82</u>	1. <u>562</u>	1. <u>4.8</u>	L = <u>100.63</u> A = <u>-0.04</u>		<u>0</u> <u>11.8</u>
	2.		2.		2.	2.	2.	B = <u>1.68</u>		
MIDDLE	1.		1.		1.	1.	1.	L =	<u>0</u> <u>Glassy</u>	<u>No</u> <u>Material</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.02</u>	<u>14.08</u>	<u>14.46</u>	<u>9.85</u>	<u>4.91</u>	<u>4.56</u>	<u>1.31</u>	
% on Mesh	<u>0.0</u>	<u>2.0</u>	<u>28.2</u>	<u>28.9</u>	<u>19.4</u>	<u>9.8</u>	<u>9.1</u>	<u>26</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-1-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.:

Ship Date: 8-1-92

Order No.:

T-381
0014384-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.07</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.575</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>6.9</u>
Pan		10.0 Max.	<u>2.1</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200746

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-2-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-381

Ship Date: 8-2-92

Order No.: 00/4384-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.04</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.571</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.1</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>7.2</u>
Pan		10.0 Max.	<u>2.2</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>5</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

M. J. Tallie
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200748

PVC BULK TRAILER ANALYSIS

Date 8-2-92 Product 5385 Trailer Number T-381
 Customer GenCorp Silo 676 Time 1100
 Technician MT & RH Order No. 0014384-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>04</u>		1. <u>3</u>		1. <u>50</u> <u>5 m.t.</u>	1. <u>.571</u>	1. <u>5.1</u>	L = <u>10.31</u> A = <u>-0.02</u>	<u>glassy</u> <u>0</u>	<u>flow</u> <u>2</u> <u>9.1</u>
	2.		2.		2.	2.	2.	B = <u>1.70</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>0.79</u>	<u>14.56</u>	<u>15.12</u>	<u>9.99</u>	<u>4.92</u>	<u>3.62</u>	<u>1.09</u>	
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>29.1</u>	<u>38.2</u>	<u>20.4</u>	<u>9.8</u>	<u>7.2</u>	<u>2.2</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 10-10-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-387

Ship Date: 10-10-92

Order No.: 0017216-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>13</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.569</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.4</u>
Pan		10.0 Max.	<u>2.2</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

James M. Hay
Laboratory Supervisor/Lead
(601) 369-3624

PVC BULK TRAILER ANALYSIS

A

Date 10-9-92 Product 5385 Trailer Number T-387
Customer Gencorp Silo 676 Time 2240
Technician MM Order No.

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. -13		1. 3/6		1. 6/2	1. .569	1. 5.0	L = 100.25 A = .07 B = 1.86	Flow 9.2	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L = A = B =	Glassy 0	
	2.		2.		2.	2.	2.			
END	1.		1.		1.	1.	1.	L = A = B =		
	2.		2.		2.	2.	2.			

Particle Size Distribution:

Screen Analysis		10	Min	On Rotap shaker.		49 gms. Resin plus	1.0 gms. Carb		
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	0.00	.29	10.08	15.89	12.55	6.19	4.22	1.10	
% on Mesh	0.0	.6	20.4	31.8	24.2	12.4	8.4	2.2	
Screen Analysis			Min.	On Rotap shaker		49 gms. Resin plus	1.0 gms. Carb		
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

VISTA

Date: 8-2-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Trailer No.: T-381

Attention: Plant Chemist

Order No.: 0014384005

Ship Date: 8-2-92

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.02</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.577</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.8</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>7.3</u>
Pan		10.0 Max.	<u>2.3</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>6</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200752

PVC BULK TRAILER ANALYSIS

Date 8-2-92 Product 5385 Trailer Number 7-381
 Customer Gewco Silo 677 Time 1455
 Technician MIT Order No. 0014384-005

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.02</u>		1. <u>10</u>		<u>50/6</u>	1. <u>.577</u>	1. <u>4.8</u>	L = <u>100.37</u>	<u>0/8.7</u>	<u>glassy</u>
								A = <u>-0.06</u>		
	2. <u>.02</u>		2. <u>14</u>					B = <u>1.82</u>	<u>9.3</u>	<u>0</u>
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.94</u>	<u>14.27</u>	<u>14.85</u>	<u>10.04</u>	<u>5.03</u>	<u>3.64</u>	<u>1.16</u>	
% on Mesh	<u>0.0</u>	<u>1.9</u>	<u>28.5</u>	<u>29.7</u>	<u>20.2</u>	<u>10.1</u>	<u>7.3</u>	<u>2.3</u>	

Screen Analysis 10 Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8/3/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: N/A

Attention: Plant Chemist

Trailer No.: T-381

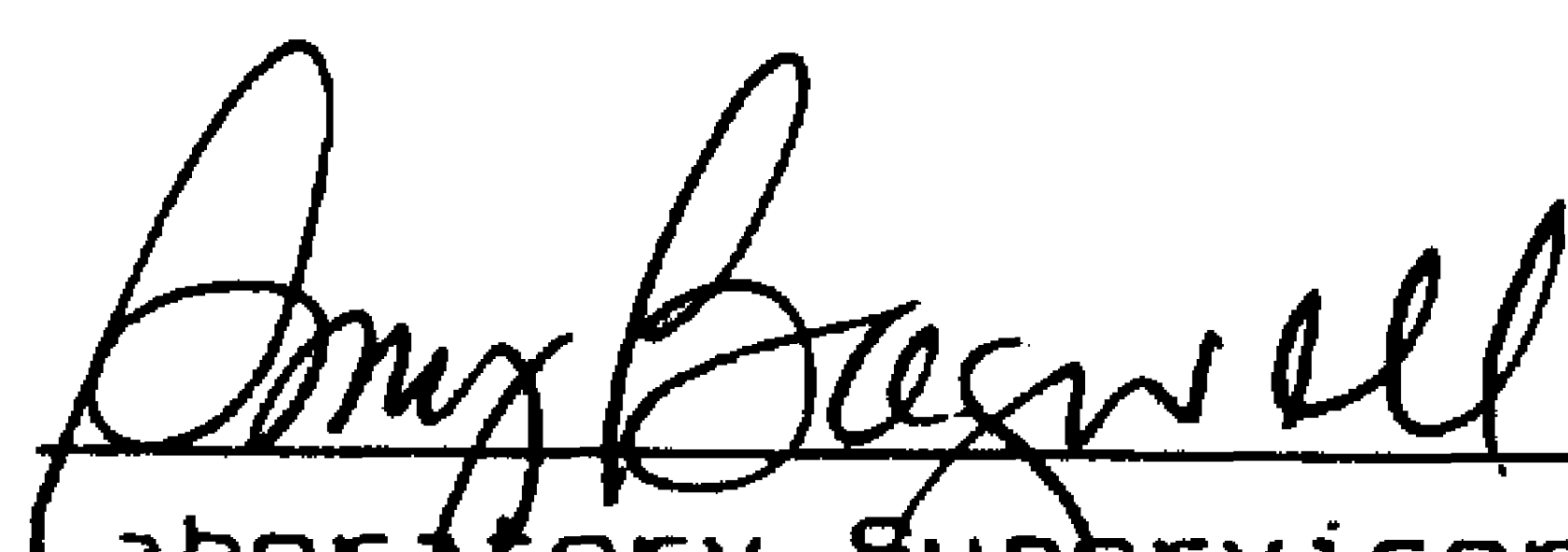
Ship Date: 8/3/92

Order No.: 0014384-004

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.03</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.584</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.7</u>
Pan		10.0 Max.	<u>3.0</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>18</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200754

PVC BULK TRAILER ANALYSIS

A

Date 8-3-92 Product 5385 Trailer Number T-381
 Customer GENCO Silo 677 Time 1120-1155
 Technician DT. HPL Order No. 0014384-004

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. 03		1. 2/8		1. 50/18	1. 584	1. 4.9	L = 100.70 A = 0.02 B = 1.63	.93	
	2.		2.		2. PA	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =	0/100	No Metal
	2.		2.		2.	2.	2.	A = B =		
END	1.		1.		1.	1.	1.	L =		Glassy
	2.		2.		2.	2.	2.	A = B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.90	14.53	13.80	9.68	5.18	4.84	1.48	
% on Mesh	0.0	1.8	29.1	27.6	19.4	10.4	8.7	3.0	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8/4/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-381

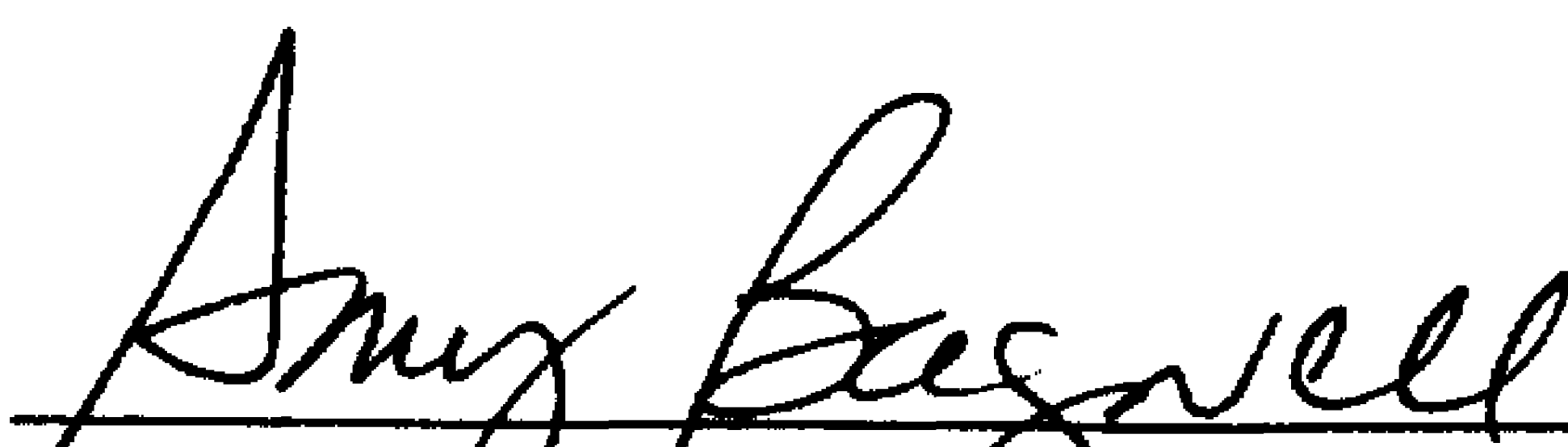
Ship Date: 8/4/92

Order No.: 0014429-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.02</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.556</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.5</u>
Pan		10.0 Max.	<u>2.5</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200756

PVC BULK TRAILER ANALYSIS

A

Date 8-4-92 Product 5385 Trailer Number T-381
 Customer GENCORP Silo 676 + 677 Time 1000-1050
 Technician D.T. HDL Order No. 0014429-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.02		1.6		1.7 P.C.	1.556	1.49	L = 100.52 A = 0.05		0 13.8
	2.		2.		2.	2.	2.	B = 1.89	.92	
MIDDLE	1.		1.		1.	1.	1.	L =		0 Glassy No metal
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	0.00	1.00	15.08	14.30	9.57	4.57	4.27	1.36	
% on Mesh	0.0	2.0	30.2	28.6	19.1	9.1	8.5	2.5	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8/10/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: -

Attention: Plant Chemist

Trailer No.: T-383

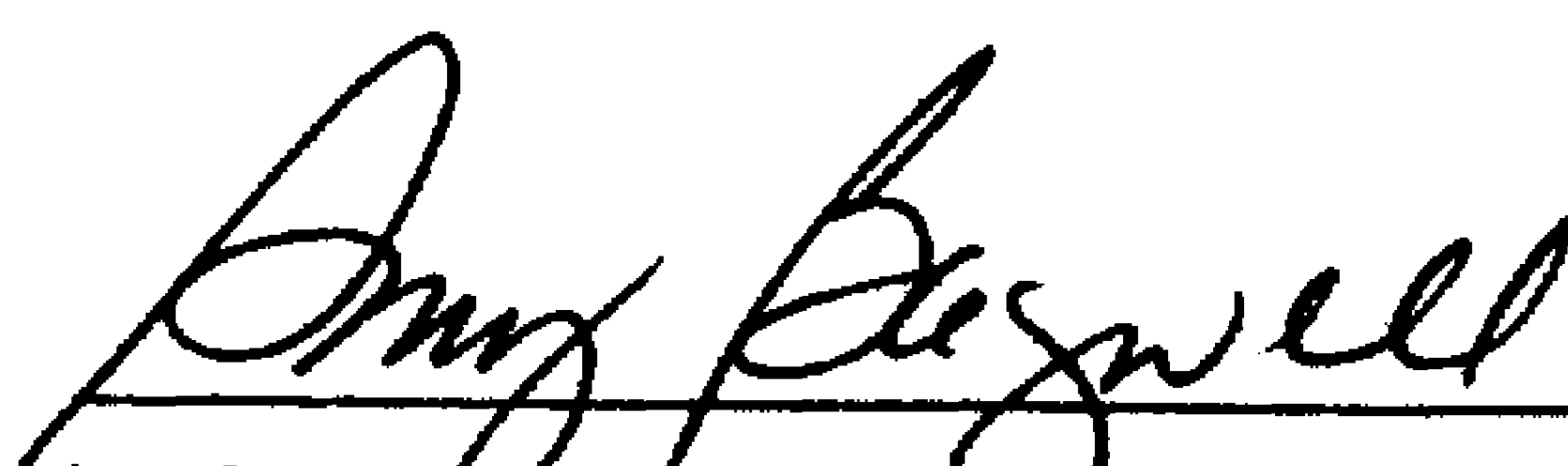
Ship Date: 8/10/92

Order No.: 0014944-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.08</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.569</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.8</u>
Pan		10.0 Max.	<u>2.2</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200758

PVC BULK TRAILER ANALYSIS

A

Date 8-18-92 Product 5385 Trailer Number 7-383
 Customer Hurco Silo 676 Time 0730
 Technician MS Order No. 0014944-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.08</u>		1. <u>7/2</u>		1. <u>18</u> <u>208</u>	1. <u>.569</u>	1. <u>5.0</u>	L = <u>100.52</u> A = <u>.07</u> B = <u>1.86</u>	<u>Flow</u> <u>9/11.2</u>	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =	<u>Glassies</u> <u>0</u>	
	2.		2.		2.	2.	2.	A = B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A = B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.80</u>	<u>12.50</u>	<u>14.29</u>	<u>10.60</u>	<u>6.20</u>	<u>4.40</u>	<u>1.10</u>	
% on Mesh	<u>0.0</u>	<u>1.6</u>	<u>25.0</u>	<u>28.6</u>	<u>21.4</u>	<u>12.4</u>	<u>8.8</u>	<u>2.2</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8/18/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: —

Attention: Plant Chemist

Trailer No.: T-377

Ship Date: 8/18/92

Order No.: 0014944-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.05</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.581</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.2</u>
Pan		10.0 Max.	<u>2.1</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200760

PVC BULK TRAILER ANALYSIS

Date 8-18-92 Product 5385 Trailer Number T-377
 Customer GENCO Silo 677 Time 0900 - 1000
 Technician D.J. F.H.L. Order No. 0014944-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>05</u>		1. <u>8</u>		1. <u>8/3</u>	1. <u>581</u>	1. <u>4.9</u>	L = <u>100.63</u>		<u>GLASSY</u>
	2.		2.		2.	2.	2.	A = <u>0.65</u>		
MIDDLE	1.		1.		1.	1.	1.	L =	<u>0</u> <u>10.2</u>	<u>NO</u> <u>MENTAL</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.00</u>	<u>12.80</u>	<u>14.35</u>	<u>10.95</u>	<u>6.00</u>	<u>4.08</u>	<u>1.45</u>	
% on Mesh	<u>0.0</u>	<u>2.0</u>	<u>25.6</u>	<u>28.7</u>	<u>21.4</u>	<u>12.0</u>	<u>8.2</u>	<u>2.1</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: August 20, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: GACX 73380

Ship Date: August 19, 1992

Order No.: 0014809-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.0
% on 200 Mesh		NDS	8.0
% on Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	1	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.050
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200762

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-5-92 Product: 5385 Car No.: 73380
 Time Logged In: 1630 Logged In By: PH Silo(s): 670+677
 Ship Date: 8/19 Order No: 14809-000 Customer: Gencorp

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.04		.04		.05	
Contamination ^{BL} BR	$\frac{3}{9}$	—	$\frac{4}{11}$	—	$\frac{3}{17}$	—	$\frac{2}{10}$	—
Bulk Density	.580		.578		.582		.578	
BD after Fluff								
Hard Particle ⁵ 7	$\frac{12}{338}$	—	—	—	—	—	—	—
Viscosity	.931							
RVCM	.050							
40 Mesh/Glassies	0		1		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.99</u>	<u>16.83</u>	<u>12.72</u>	<u>8.87</u>	<u>4.99</u>	<u>4.00</u>	<u>1.34</u>
%	<u>0.0</u>	<u>4.0</u>	<u>32.1</u>	<u>25.4</u>	<u>17.8</u>	<u>10.0</u>	<u>8.0</u>	<u>2.7</u>

Drytime: 5.0 Static Flow: 0.8.4 Avg. Microns: 168

Color L: 100.05 a .01 b 1.69

Technician: RJL

VAB.0001200763

CERTIFICATE OF ANALYSIS

Date: August 26, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45308

Ship Date: August 21, 1992

Order No.: 0014809-001

VISTA

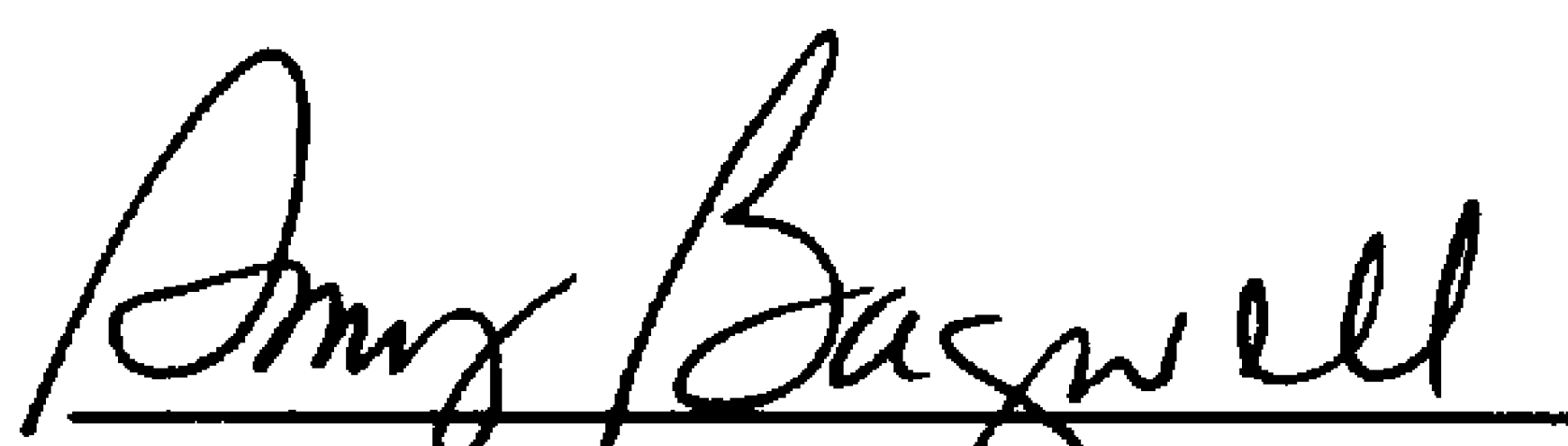
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.09
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.0
% on Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.081
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200764

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 8-20-92 Product: 5385 Car No.: 45308
 Time Logged In: 0500 Logged In By: M.T Silo(s): 676-677
 Ship Date: 8/21 Order No: 14809-001 Customer: Gencorp

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.09		.08		.09	
Contamination	BL							
	BR							
	2	—	20	—	18	—	9	—
	6		3		3		2	
Bulk Density	.587		.575		.580		.581	
BD after Fluff								
Hard Particle 5	16	—	—	—	—	—	—	—
7	2 MB							
Viscosity	.930							
RVCM	.081							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.94</u>	<u>14.29</u>	<u>15.05</u>	<u>9.88</u>	<u>5.09</u>	<u>3.52</u>	<u>1.17</u>
%	<u>0.0</u>	<u>1.9</u>	<u>28.6</u>	<u>30.1</u>	<u>19.9</u>	<u>10.2</u>	<u>7.0</u>	<u>2.3</u>

Drytime: 5.0 Static Flow: 0 18.5 Avg. Microns: 162.8

Color L: 100.47 a 0.02 b 1.69

Technician: ES + MB

VAB.0001200765

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: August 26, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45275

Ship Date: August 24, 1992

Order No.: 0014809-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.587
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.0
% on Pan		10.0 Max.	3.2
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.041
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200766

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-21-92 Product: 5385 Car No.: 45275
 Time Logged In: 1620 Logged In By: Ed Silo(s): 676, 677
 Ship Date: 8/24 Order No: 14809-002 Customer: GENCORP

NO MCM

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.12		.15		.17	
Contamination	BL <u>18</u>		7		16		8	
	BR <u>13</u>		8		11		9	
Bulk Density	.582		.598		.582		.588	
BD after Fluff								
Hard Particle 5	<u>5</u>							
	7 <u>2 HDL</u>							
Viscosity	:929							
RVCM	.042							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.76</u>	<u>13.70</u>	<u>14.54</u>	<u>10.13</u>	<u>5.52</u>	<u>4.00</u>	<u>1.58</u>
%	<u>0.0</u>	<u>1.5</u>	<u>27.4</u>	<u>29.1</u>	<u>19.8</u>	<u>11.0</u>	<u>8.0</u>	<u>3.2</u>

Drytime: 5.0 Static Flow: 0, 9.8 Avg. Microns: 159.3

Color L: 100.33 a 0.64 b 1.71

Technician: DT+HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-28-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-381

Ship Date: 8-28-92

Order No.: 0015423-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.06</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.572</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>9.8</u>
Pan		10.0 Max.	<u>2.8</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Eddie Smith

Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200768

PVC BULK TRAILER ANALYSIS

A

Date 8-28-92 Product 5385 Trailer Number T-381
 Customer Gencorp Silo 685 Time 0430
 Technician ES + MB Order No. 0015423-00

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>06</u>		1. <u>47</u>		1. <u>5/3MB</u>	1. <u>.572</u>	1. <u>5.0</u>	L = <u>100.49</u>		<u>Flow</u> <u>9.6</u>
	2.		2.		2.	2.	2.	A = <u>0.27</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>Glassier</u> <u>0</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>1.00</u>	<u>0.43</u>	<u>10.49</u>	<u>14.94</u>	<u>11.36</u>	<u>6.64</u>	<u>4.89</u>	<u>1.41</u>	
% on Mesh	<u>0.0</u>	<u>0.9</u>	<u>21.0</u>	<u>29.9</u>	<u>22.3</u>	<u>13.3</u>	<u>9.8</u>	<u>2.8</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001200769

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: August 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46517

Ship Date: August 26, 1992

Order No.: 0014809-003

VISTA

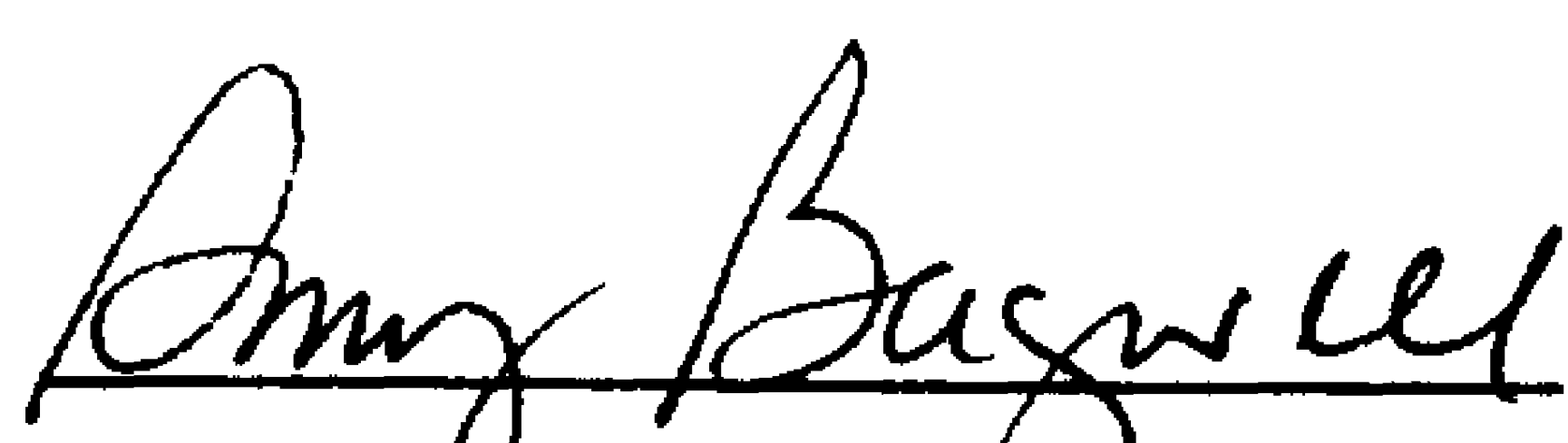
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.0
% on Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles ● 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.033
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200770

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 8-26-92Product: 5385Car No.: 46517Time Logged In: 0600Logged In By: ESSilo(s): 676, 677, 685Ship Date: 8/26Order No: 14809-003Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.15		.12		.13	
Contamination	BL							
	BR							
	<u>2</u>	—	<u>4</u>	—	<u>2</u>	—	<u>9</u>	—
	<u>2</u>		<u>1</u>		<u>1</u>		<u>3</u>	
Bulk Density	.581		.580		.577		.580	
BD after Fluff								
Hard Particle 5	<u>7</u>	—	—	—	—	—	—	—
7	<u>2.35</u>							
Viscosity	.933							
RVCM	.033							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.12</u>	<u>14.13</u>	<u>14.00</u>	<u>9.84</u>	<u>5.68</u>	<u>4.00</u>	<u>1.20</u>
%	<u>0.0</u>	<u>2.2</u>	<u>28.3</u>	<u>28.0</u>	<u>19.7</u>	<u>11.4</u>	<u>8.0</u>	<u>2.4</u>

Drytime: 4.8Static Flow: 0 / 7.8Avg. Microns: 161.8Color L: 100.11 a -0.02 b 1.81Technician: MM & HA

VAB.0001200771

PVC BULK TRAILER ANALYSIS

A

Date 8-28-92 Product 5385 Trailer Number T-381
 Customer Bendap Silo 676/77/85 Time 10:20
 Technician M-T Order No. 0015423-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.05</u>		1. <u>8</u>		1. <u>3/155</u>	<u>565</u>	1. <u>4.7</u>	L = <u>99.86</u>	<u>0</u> <u>9.5</u>	<u>glassies</u> <u>3</u>
	2.		2.		2.		2.	A = <u>0.22</u>		
MIDDLE	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
END	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.29</u>	<u>12.12</u>	<u>14.72</u>	<u>10.37</u>	<u>6.11</u>	<u>5.09</u>	<u>1.40</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>24.2</u>	<u>29.4</u>	<u>20.6</u>	<u>12.2</u>	<u>10.2</u>	<u>2.8</u>	

Screen Analysis Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8-28-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-381

Ship Date: 8-28-92

Order No.: 0015423-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.05</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.565</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.7</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>10.2</u>
Pan		10.0 Max.	<u>2.8</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>3</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>1</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.140</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200773

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: September 2, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45797

Ship Date: August 31, 1992

Order No.: 0014809-004

VISTA

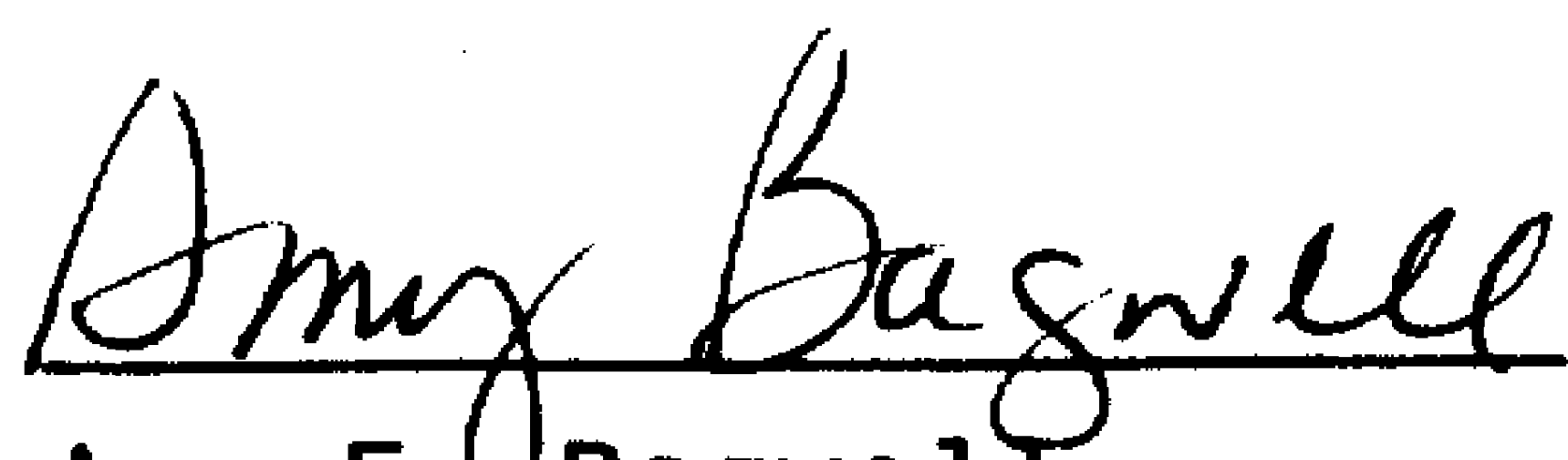
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.588
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.1
% on Pan		10.0 Max.	2.6
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.130
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200774

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-30-92Product: 5385Car No.: 45797Time Logged In: 0100Logged In By: MLSilo(s): 685, 676Ship Date: 8/31Order No: 14809-004Customer: GencoNO MEND

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.18		.18		.18	
Contamination	BL	<u>5</u>	<u>6</u>		<u>7</u>		<u>5</u>	
	BR	<u>4</u>	<u>8</u>		<u>8</u>		<u>9</u>	
Bulk Density	.588		.588		.588		.588	
BD after Fluff								
Hard Particle 5	<u>5</u>							
7	<u>2</u>							
	<u>PC</u>							
Viscosity	.927							
RVCM	.130							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.14</u>	<u>16.02</u>	<u>12.70</u>	<u>8.86</u>	<u>5.26</u>	<u>10.4</u>	<u>128</u>
%	<u>0.0</u>	<u>4.3</u>	<u>32.0</u>	<u>25.4</u>	<u>17.1</u>	<u>10.5</u>	<u>8.1</u>	<u>2.6</u>

Drytime: 5.0Static Flow: 0 17.5Avg. Microns: 168.0Color L: 101.01 a 0.02 b 1.76Technician: DET. H. D. L.

VAB.0001200775

CERTIFICATE OF ANALYSIS

Date: September 4, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46409

Ship Date: September 1, 1992

Order No.: 0014809-005

VISTA

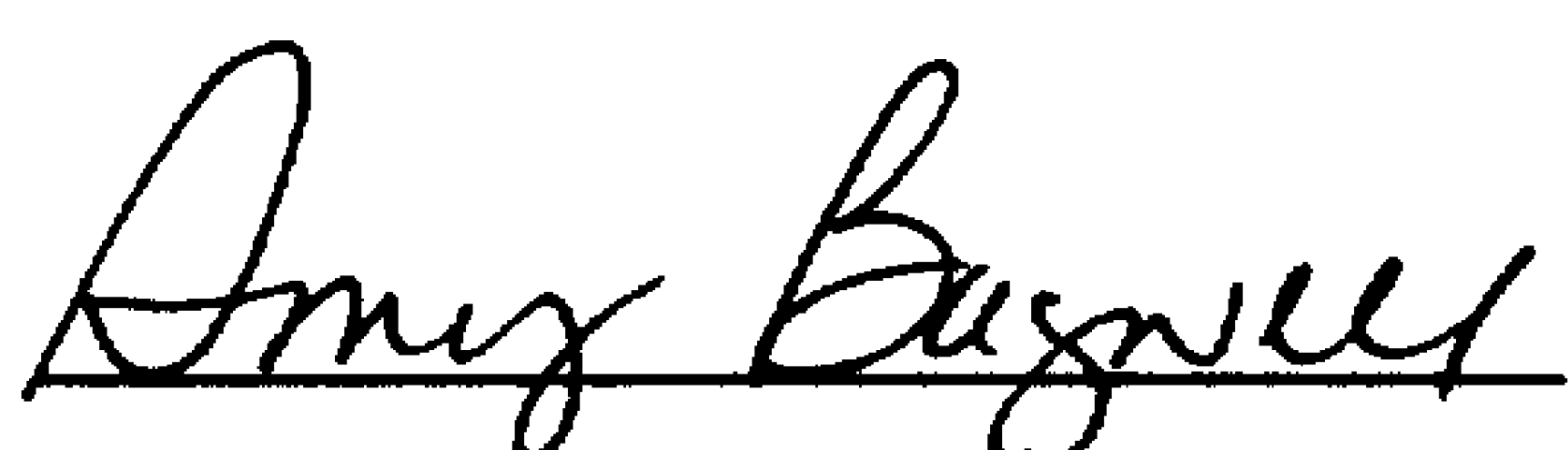
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.587
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.5
% on Pan		10.0 Max.	2.7
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.042
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200776

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9-1-92Product: 5385Car No.: 46409Time Logged In: 0400Logged In By: MSSilo(s): 676, 177, 685Ship Date: 9/1Order No: 14809-005Customer: GencorpNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.15		.15		.17	
Contamination	BL <u>3</u>	—	3	—	5	—	6	—
	BR <u>6</u>		5		5		5	
Bulk Density	.588		.586		.588		.586	
BD after Fluff								
Hard Particle 5	<u>6</u>	—	—	—	—	—	—	—
	7 <u>2 PC</u>							
Viscosity	.922							
RVCM	.042							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.18</u>	<u>14.35</u>	<u>13.05</u>	<u>9.54</u>	<u>5.86</u>	<u>4.75</u>	<u>1.36</u>
%	<u>0.0</u>	<u>2.4</u>	<u>28.7</u>	<u>26.1</u>	<u>18.9</u>	<u>11.7</u>	<u>9.5</u>	<u>2.7</u>

Drytime: 49Static Flow: 0.84Avg. Microns: 160.9Color L: 100.92 a 0.22 b 1.88Technician: J.T.HDL

VAB.0001200777

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: September 28, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41139

Ship Date: September 25, 1992

Order No.: 00164878-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.05
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.567
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.2
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.8
% on Pan		10.0 Max.	2.6
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.050
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200778

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9-16-92Product: 5385Car No.: 41139Time Logged In: 0200Logged In By: M.TSilo(s): 676-677Ship Date: 9/25/92Order No: 0016478-000Customer: GencorpNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.05		.05		.04	
Contamination	BL							
	BR							
	2	—	2	—	2	—	2	—
	3		8		6		7	
Bulk Density	.558		.558		.580		.571	
BD after Fluff								
Hard Particle 5	10	—	—	—	—	—	—	—
	7	—	—	—	—	—	—	—
	2							
Viscosity	.920		.925		.928		.924	
RVCM	.050							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.75</u>	<u>11.60</u>	<u>13.82</u>	<u>11.39</u>	<u>6.50</u>	<u>4.40</u>	<u>1.32</u>
%	<u>0.0</u>	<u>1.5</u>	<u>23.2</u>	<u>27.6</u>	<u>23.3</u>	<u>13.0</u>	<u>8.8</u>	<u>2.6</u>

Drytime: 5.2Static Flow: 0 18.1Avg. Microns: Color L: 100.44 a 0.10 b 1.74Technician: HOZ/ES

VAB.0001200779

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: September 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45308

Ship Date: September 28, 1992

Order No.: 0016478-001

VISTA

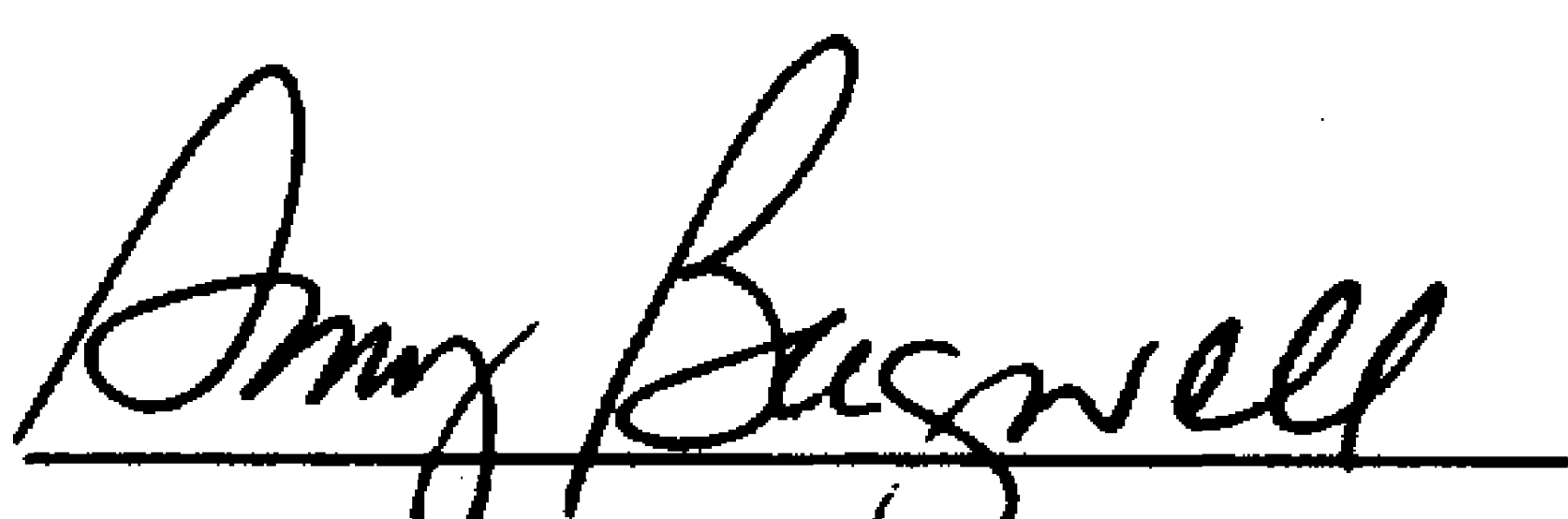
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.577
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.6
% on Pan		10.0 Max.	2.5
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.170
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200780

Viata Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 9-17-92Product: 5385Car No.: 45308Time Logged In: 0500Logged In By: M.TSilo(s): 676-677Ship Date: 9/28/92Order No: 0016478-001Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.14</u>		<u>.15</u>		<u>.12</u>		<u>.10</u>	
Contamination	BL							
	BR							
	<u>2</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>2</u>	<u>—</u>
	<u>7</u>		<u>6</u>		<u>9</u>		<u>10</u>	
Bulk Density	<u>.578</u>		<u>.580</u>		<u>.577</u>		<u>.575</u>	
BD after Fluff								
Hard Particle 5	<u>9</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>258</u>							
Viscosity	<u>.936</u>							
RVCM	<u>.170</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>2.00</u>	<u>.61</u>	<u>10.18</u>	<u>14.62</u>	<u>11.68</u>	<u>6.86</u>	<u>4.79</u>	<u>1.27</u>
%	<u>0.0</u>	<u>1.2</u>	<u>20.4</u>	<u>29.2</u>	<u>23.4</u>	<u>13.7</u>	<u>9.6</u>	<u>2.5</u>

Drytime: 4.9Static Flow: 0 / 8.1Avg. Microns: 152.6Color L: 99.50 a -.14 b 1.89Technician: MAYES

VAB.0001200781

CERTIFICATE OF ANALYSIS

Date: October 1, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 55814

Ship Date: September 30, 1992

Order No.: 0016478-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.593
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.4
% on Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.034
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor
(601) 369-3624

Viata Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 9-20-92Product: 5385Car No.: 55814Time Logged In: 1700Logged In By: M.T.Silo(s): 676-677Ship Date: 9/30Order No: 16478-002Customer: GencorpNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.18		.18		.18	
Contamination	BL		8		12		7	
	BR		11		8		13	
Bulk Density	.593		.592		.593		.593	
BD after Fluff								
Hard Particle 5	6							
	7							
Viscosity	.927							
RVCM	.034							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.70</u>	<u>9.95</u>	<u>13.10</u>	<u>13.12</u>	<u>7.42</u>	<u>4.72</u>	<u>1.21</u>
%	<u>0.0</u>	<u>1.4</u>	<u>19.9</u>	<u>26.2</u>	<u>25.9</u>	<u>14.8</u>	<u>9.4</u>	<u>2.4</u>

Drytime: 5.0Static Flow: 0 / 8.9Avg. Microns: 151.8Color L: 100.22 a 0.18 b 1.57Technician: P. J. H. D. L.

VAB.0001200783

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: October 7, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41136

Ship Date: October 2, 1992

Order No.: 0016478-003

VISTA

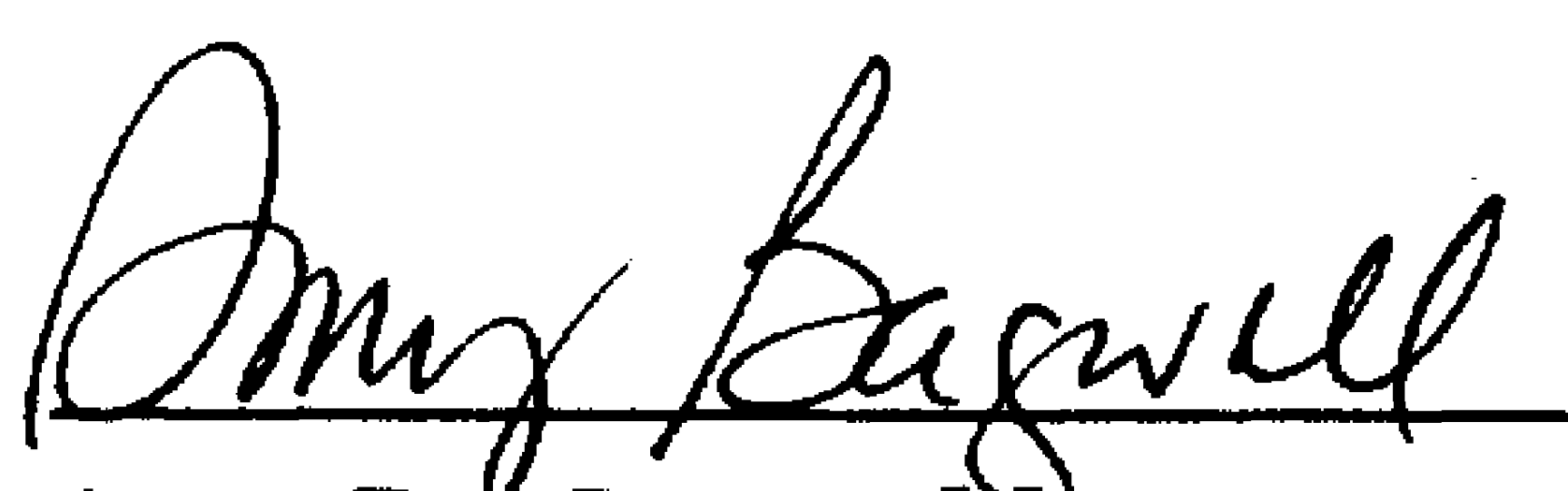
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.10
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.9
% on Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.050
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200784

Vista Polymers

Highway 25

Aberdeen, MS 39730^A

PVC RAILCAR ANALYSIS

Load Date: 10-1-92Product: 5385Car No.: 41136Time Logged In: 0400Logged In By: M.T.Silo(s): 676-685Ship Date: 10/2/92Order No: 16478-003Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.06		.10		.09	
Contamination	BL <u>8</u>	—	<u>9</u>	—	<u>8</u>	—	<u>9</u>	—
	BR <u>5</u>		<u>7</u>		<u>6</u>		<u>6</u>	
Bulk Density	.577		.572		.573		.577	
BD after Fluff								
Hard Particle 5	<u>10</u>	—	—	—	—	—	—	—
7	<u>2TE</u>							
Viscosity	.928							
RVCM	.050							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.60</u>	<u>11.42</u>	<u>14.60</u>	<u>11.38</u>	<u>6.54</u>	<u>4.45</u>	<u>1.16</u>
%	<u>0.0</u>	<u>1.2</u>	<u>22.8</u>	<u>29.2</u>	<u>22.5</u>	<u>13.1</u>	<u>8.9</u>	<u>2.3</u>

Drytime: 4.8Static Flow: 0 / 9.7Avg. Microns: 155Color L: 100.55 a 129 b 1.78Technician: Co-TE

VAB.0001200785

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: October 8, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PL~~LY~~ 42996

Ship Date: October 6, 1992

Order No.: 0016478-004

VISTA

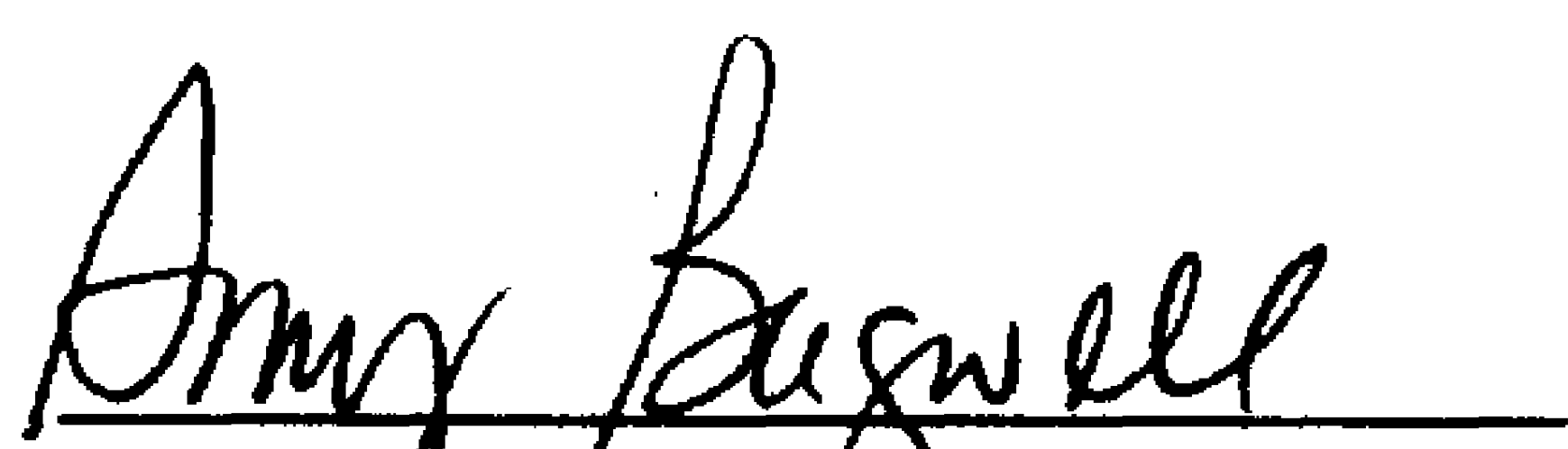
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.582
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.1
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.4
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.028
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200786

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 10-4-92Product: 5385Car No.: 42996Time Logged In: 0530Logged In By: PatSilo(s): 676, 677, 685Ship Date: 10/6Order No: 16478-004Customer: GenCorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.17		.12	
Contamination	BL							
	BR							
	<u>3</u>	—	<u>2</u>	—	<u>4</u>	—	<u>2</u>	—
	<u>5</u>		<u>6</u>		<u>5</u>		<u>7</u>	
Bulk Density	.583		.585		.580		.579	
BD after Fluff	.576		.579		.575		.574	
Hard Particle 5	<u>20</u>	—	—	—	—	—	—	—
7	<u>3 TB</u>							
Viscosity	.926							
RVCM	.028							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.85</u>	<u>12.86</u>	<u>14.17</u>	<u>10.60</u>	<u>6.18</u>	<u>4.20</u>	<u>1.06</u>
%	<u>0.0</u>	<u>1.7</u>	<u>25.7</u>	<u>28.3</u>	<u>21.4</u>	<u>12.4</u>	<u>8.4</u>	<u>2.1</u>

Drytime: 5.1Static Flow: 0 17.7Avg. Microns: 158.7Color L: 100.94 a .24 b 1.86Technician: MD + TB

VAB.0001200787

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 10/5/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: N/A

Attention: Plant Chemist

Trailer No.: T-383

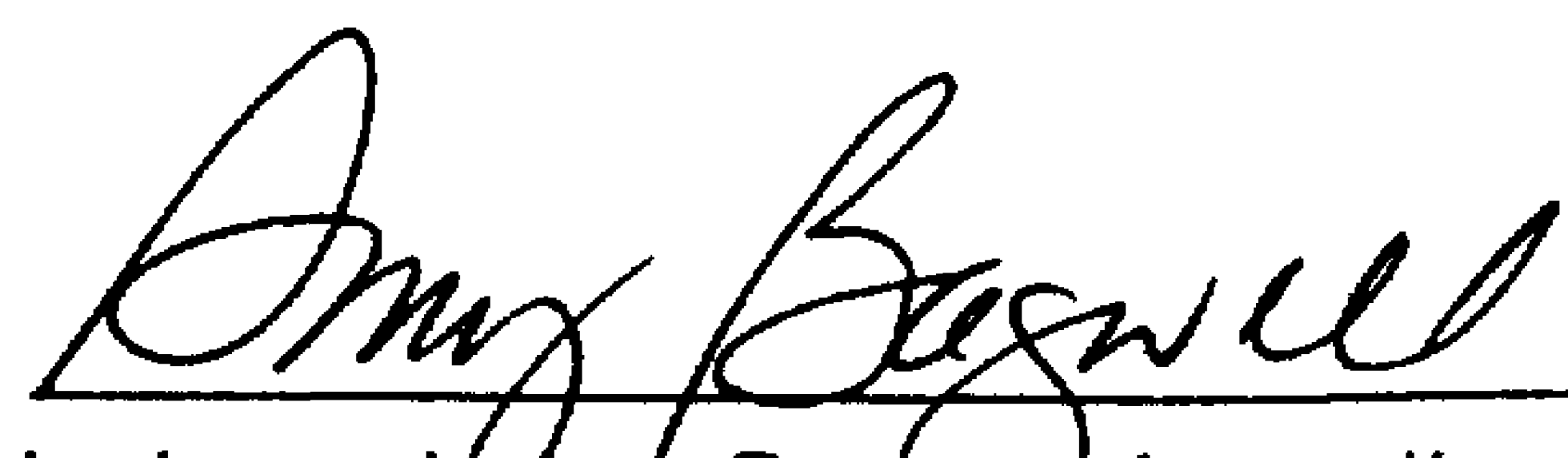
Ship Date: 10/5/92

Order No.: 0016966-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>0.12</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>0.577</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>6.6</u>
Pan		10.0 Max.	<u>1.7</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

PVC BULK TRAILER ANALYSIS

A

Date 10-5-92 Product 5385 Trailer Number 7-383
 Customer Gencorp Silo 685 Time 1200
 Technician MD Order No. 0016966-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>3/5</u>		1. <u>12</u> <u>276</u>	1. <u>.577</u>	1. <u>5.0</u>	L = <u>100.31</u> A = <u>.50</u>	<u>Flow</u> <u>9/10.2</u>	
	2.		2.		2.	2.	2.	B = <u>1.49</u>		
MIDDLE	1.		1.		1.	1.	1.	L =	<u>Glassier</u> <u>0</u>	
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.55</u>	<u>14.10</u>	<u>15.10</u>	<u>10.83</u>	<u>5.70</u>	<u>3.29</u>	<u>.85</u>	
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>28.2</u>	<u>30.2</u>	<u>20.8</u>	<u>11.4</u>	<u>6.6</u>	<u>1.7</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001200789

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 10/5/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: N/A

Attention: Plant Chemist

Trailer No.: T-376

Ship Date: 10/5/92

Order No.: 0016966-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>0.11</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>0.577</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.1</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>6.4</u>
Pan		10.0 Max.	<u>1.7</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>3</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200790

PVC BULK TRAILER ANALYSIS

A

Date 10-5-92 Product 5385 Trailer Number T-376
 Customer Gencorp Silo 676 Time 1040
 Technician MY Order No. 0016966-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.11</u>		1. <u>.3</u>		1. <u>.25</u>	1. <u>.577</u>	1. <u>5-1</u>	L = <u>100.90</u>	<u>Flow</u> <u>57</u> <u>8.8</u>	
			<u>9</u>		<u>3 TR</u>			A = <u>.08</u>		
MIDDLE	2.		2.		2.	2.	2.	B = <u>1.97</u>	<u>Glassies</u> <u>0</u>	
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.35</u>	<u>15.86</u>	<u>14.16</u>	<u>9.44</u>	<u>5.15</u>	<u>3.20</u>	<u>.87</u>	
% on Mesh	<u>0.0</u>	<u>2.7</u>	<u>31.7</u>	<u>28.3</u>	<u>18.9</u>	<u>10.3</u>	<u>6.4</u>	<u>1.7</u>	

Screen Analysis Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001200791

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: October 9, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45872

Ship Date: October 8, 1992

Order No.: 0016478-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.13
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	6.7
% on Pan		10.0 Max.	1.7
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.032
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200792

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 10-7-92Product: 5385Car No.: 45872Time Logged In: 0900Logged In By: MSSilo(s): 685Ship Date: 10/8Order No: 16478-005Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.11		.11		.13	
Contamination	BL <u>3</u>	—	2	—	3	—	2	—
	BR <u>4</u>		2		5		8	
Bulk Density	.579		.581		.580		.580	
BD after Fluff								
Hard Particle 5	<u>14</u>	—	—	—	—	—	—	—
7	<u>3</u>							
Viscosity	.928							
RVCM	.032							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.82</u>	<u>13.02</u>	<u>15.50</u>	<u>10.92</u>	<u>5.58</u>	<u>3.33</u>	<u>.84</u>
%	<u>0.0</u>	<u>1.6</u>	<u>26.0</u>	<u>31.0</u>	<u>21.8</u>	<u>11.2</u>	<u>6.7</u>	<u>1.7</u>

Drytime: 4.9Static Flow: 0 19.3 Avg. Microns: 160.9Color L: 100.81 a .15 b 1.92Technician: E

VAB.0001200793

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 10-10-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-384

Ship Date: 10-10-92

Order No.: 0017216-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.10</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.573</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.0</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>7.4</u>
Pan		10.0 Max.	<u>2.0</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

James M. Gray
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200794

PVC BULK TRAILER ANALYSIS

A

Date 10.9.92 Product 5385 Trailer Number 7-384
 Customer Hensap Silo 676,677 Time 2240
 Technician MS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.10</u>		1. <u>2/5</u>		1. <u>5/2</u>	1. <u>.573</u>	1. <u>5.0</u>	L = <u>100.52</u> A = <u>.08</u>	<u>Flow</u> <u>47.9</u>	
	2.		2.		2.	2.	2.	B = <u>1.89</u>		
MIDDLE	1.		1.		1.	1.	1.	L =	<u>GLASSY</u> <u>0</u>	
	2.		2.		2.	2.	2.	A = B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A = B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.29</u>	<u>8.69</u>	<u>18.16</u>	<u>12.25</u>	<u>5.90</u>	<u>3.72</u>	<u>1.01</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>17.4</u>	<u>36.3</u>	<u>24.5</u>	<u>11.8</u>	<u>7.4</u>	<u>2.0</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001200795

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: October 14, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41171

Ship Date: October 12, 1992

Order No.: 0016478-006

VISTA

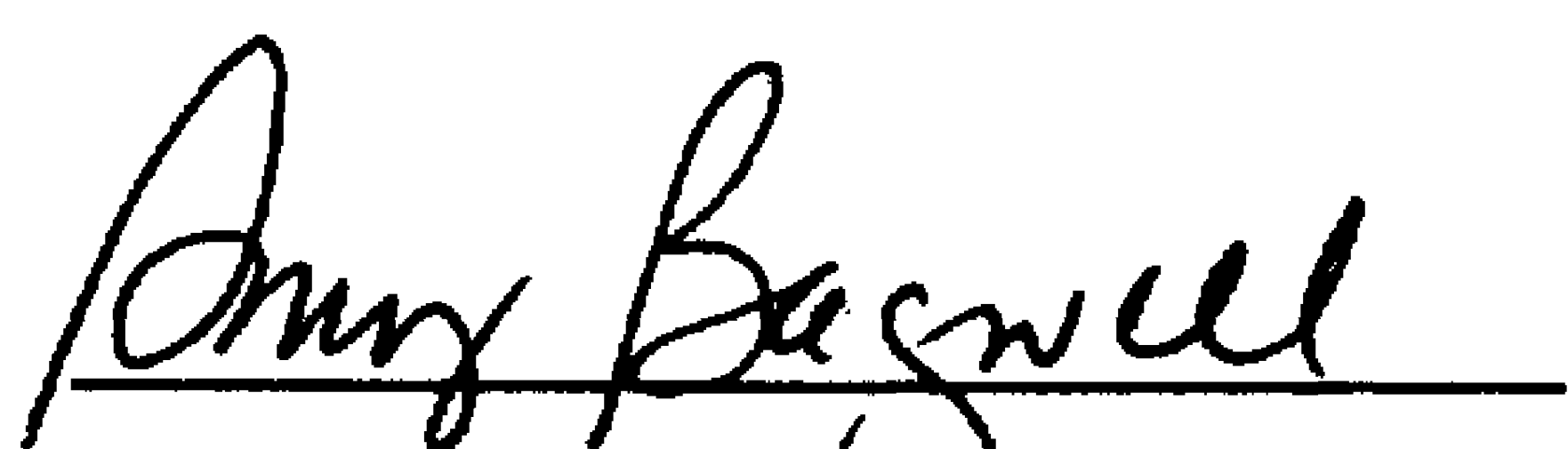
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.574
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	0.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.5
% on Pan		10.0 Max.	2.2
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.064
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200796

Vista Polymers

Highway 25

Aberdeen, MS 39730^A

PVC RAILCAR ANALYSIS

ACFY

Load Date: 10-8-92Product: 5385Car No.: 41171Time Logged In: 0900Logged In By: MESilo(s): 676, 677, 685Ship Date: 10/12Order No: 16478-006Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.14		.12		.08	
Contamination	BL							
	BR							
	<u>1</u>	—	<u>2</u>	—	<u>3</u>	—	<u>4</u>	—
	<u>4</u>		<u>5</u>		<u>7</u>		<u>16</u>	
Bulk Density	.558		.568		.584		.587	
BD after Fluff								
Hard Particle 5	<u>14</u>	—	—	—	—	—	—	—
	<u>7</u>							
	<u>382</u>							
Viscosity	.931							
RVCM	.064							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.45</u>	<u>11.27</u>	<u>15.04</u>	<u>11.55</u>	<u>6.16</u>	<u>4.27</u>	<u>1.09</u>
%	<u>0.0</u>	<u>.9</u>	<u>22.5</u>	<u>30.1</u>	<u>23.5</u>	<u>12.3</u>	<u>8.5</u>	<u>2.2</u>

Drytime: 4.9Static Flow: 0, 9.9 Avg. Microns: 155.0Color L: 100.53 a .07 b 1.98Technician: G + ES

VAB.0001200797

CERTIFICATE OF ANALYSIS

Date: October 15, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 42777

Ship Date: October 14, 1992

Order No.: 0016478-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.589
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.6
% on Pan		10.0 Max.	2.2
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

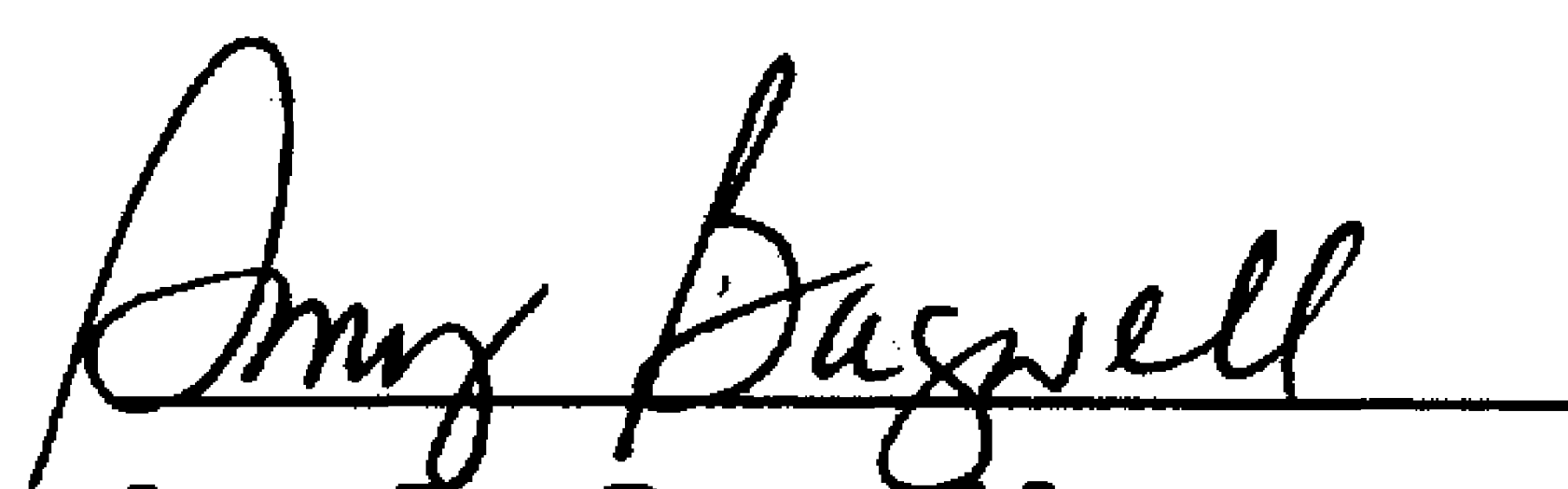
(By Compartment)

*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	4
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.319
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200798

Vista Polymers

Highway 25

Aberdeen, MS 39730 ^A

PVC RAILCAR ANALYSIS

Load Date: 10-10-92Product: 5385Car No.: 42777Time Logged In: 2300Logged In By: MASilo(s): 676, 677Ship Date: 10/14/92Order No: 0016478-007Customer: GenCorpNormal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.17		.12		.15		.15	
Contamination	BL		10		5		13	
	BR		18		10		31	
Bulk Density	.606		.570		.572		.588	
BD after Fluff								
Hard Particle 5	13							
7	4.44							
Viscosity	.927							
RVCM	.319							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.24</u>	<u>8.51</u>	<u>15.08</u>	<u>1278</u>	<u>7.16</u>	<u>178</u>	<u>1.12</u>
%	<u>0.0</u>	<u>0.5</u>	<u>17.0</u>	<u>30.2</u>	<u>26.2</u>	<u>14.3</u>	<u>9.6</u>	<u>2.2</u>

Drytime: 5.0Static Flow: 0.92Avg. Microns: 149.0

Color L: $\frac{98.08}{100.43}$ a $\frac{1.08}{0.08}$ b $\frac{2.43}{1.93}$

Technician: D. J.

VAB.0001200799

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 10/23/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04995

Attention: Plant Chemist

Trailer No.: T-455480

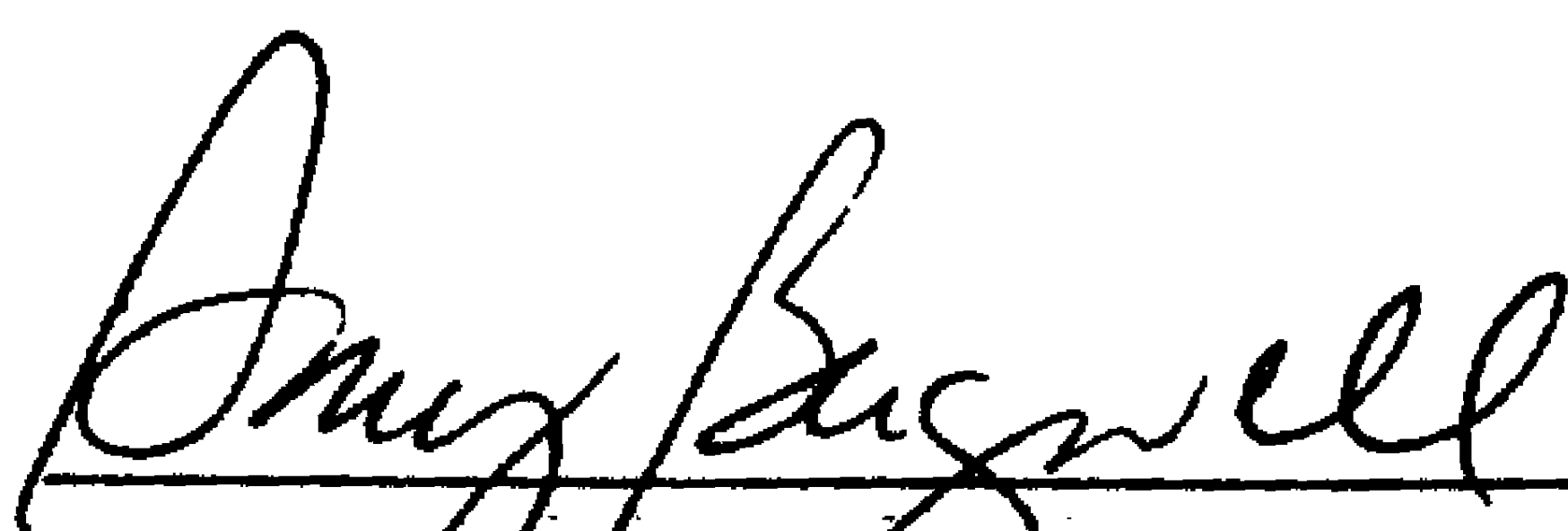
Ship Date: 10/22/92

Order No.: 0017586-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.18</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.600</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.8</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.0</u>
Pan		10.0 Max.	<u>2.6</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>5</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

RES: BAG BLEND

BLEND NO: 04995

PRODUCT: 5385

DATE: 7-13-92

TIME/TESTED BY: 1100-M. K. H. A.

Avg. Microns, 5225/5325/5415: _____

SKID NO.	% MOIST	BLACK/BROWN CONT.	PARTICLE SIZE DISTRIBUTION								BULK DENS	5/7 MIN. H/P	DRY TIME	STATIC FLOW	C O L O R			CPA	% GLASSY	VISC.	RVCM
			40	60	80	100	120	140	200	PAN					L	A	B				
COM-POSITE RESULTS	COMPOSITE OF 1, 13, 25 & 37		0.00	2.58	15.62	12.48	8.91	5.08	4.00	1.28	.600	50/5 MDB	4.8	0/8.8	100.64	.09	1.76				.021
SKID #1	.13	11/2	> III Pipe only																	.929	
SKID #4	.10	54/17																			
SKID #7	.14	14/9																			
SKID #10	.18	16/5	Type I																		
SKID #13	.18	9/7																		.933	
SKID #16	.15	13/5																			
SKID #19	.16	15/6																			
SKID #22	.17	14/3																			
SKID #25	.17	13/5																		.932	
SKID #28	.18	14/2																			
SKID #31	.15	13/5																			
SKID #34	.14	9/3																			
SKID #37	.16	28/3																		.929	

Vista Chemical Company

VISTA

Customer Return Receiving Report

No. CR 02122

Date Returned
11/2/92Date of Report
11/4/92Plant **ABERDEEN**

From	GENCORP POLYMER PRODUCTS		Pro Number	Trailer Number
	YORKVILLE RD.		Prepaid	T-379
	COLUMBUS, MS 39701		Collect	Rail Car Number
Delivered By			Collect Amount	Condition
			\$	

Quantity	Description	Weight
1	VISTA 5385 PVC RESIN (10790)	46,840#
	ORDER NO. 0018049-000	
	SHIPPED 11/2/92	

Reason for Return		Remarks
CUSTOMER CLAIMS		
CONTAMINATED (YELLOW SPECKS)		
CONTAMINATION ON CUSTOMER'S SCREEN		
Disposition		Delivered To
Return Authorized By	Date Originally Shipped	Received By
	11/4/92	VAB.0001200802

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 11-1-92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-379 0018159-000

Ship Date: ~~11-1-92~~ 11/3/92

Order No.: ~~0018049-000~~

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>.03</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>.553</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.9</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.00</u>
200 Mesh		NDS	<u>7.3</u>
Pan		10.0 Max.	<u>1.6</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>2</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>.92</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

David Thompson

Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200803

PVC BULK TRAILER ANALYSIS

Date 10-31-92 Product 5385 Trailer Number T-379
 Customer GenCorp Silo 676 Time 2200-2330
 Technician DET + G.B. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>03</u>		1. <u>5</u>		1. <u>3</u>	1. <u>553</u>	1. <u>4.9</u>	L = <u>100.46</u>		<u>0</u> <u>13.8</u>
	2.		2.		2. <u>G.B.</u>			A = <u>-0.00</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>0</u> <u>GLASSY</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		<u>NO</u> <u>METAL</u>
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.	<u>0.00</u>	<u>0.25</u>	<u>10.15</u>	<u>15.50</u>	<u>12.8</u>	<u>8.00</u>	<u>3.65</u>	<u>.80</u>	
Tare									
Net Wt.									
% on Mesh	<u>0.0</u>	<u>0.5</u>	<u>20.5</u>	<u>30.6</u>	<u>25.7</u>	<u>14.0</u>	<u>7.3</u>	<u>1.6</u>	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: November 4, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45804

Ship Date: November 3, 1992

Order No.: 0018152-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.5
% on Pan		10.0 Max.	2.2
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.084
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200805

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

VIP4

Load Date: 11-2-92

Product: 5385

Car No.: 45804

Time Logged In: 0200

Logged In By: Dot

Silo(s): 676, 77, 85

Ship Date: 11/3/92

Order No: 0018152-000

Customer: GENCORP

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.16		.15		.14	
Contamination	BL		6		3		5	
	BR	8	9		6		8	
Bulk Density	.582		.580		.581		.577	
BD after Fluff								
Hard Particle 5	14							
7	2							
Viscosity	.932							
RVCM	.084							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.42</u>	<u>9.50</u>	<u>15.31</u>	<u>12.34</u>	<u>7.15</u>	<u>4.25</u>	<u>1.12</u>
%	<u>0.0</u>	<u>.8</u>	<u>19.0</u>	<u>30.6</u>	<u>24.6</u>	<u>14.3</u>	<u>8.5</u>	<u>2.2</u>

Drytime: 5.0

Static Flow: 0 / 8.6

Avg. Microns: 151.8

Color L: 100.52 a 0.00 b 1.76

Technician: MJ

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: November 4, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45783

Ship Date: November 2, 1992

Order No.: 0018058-000

VISTA

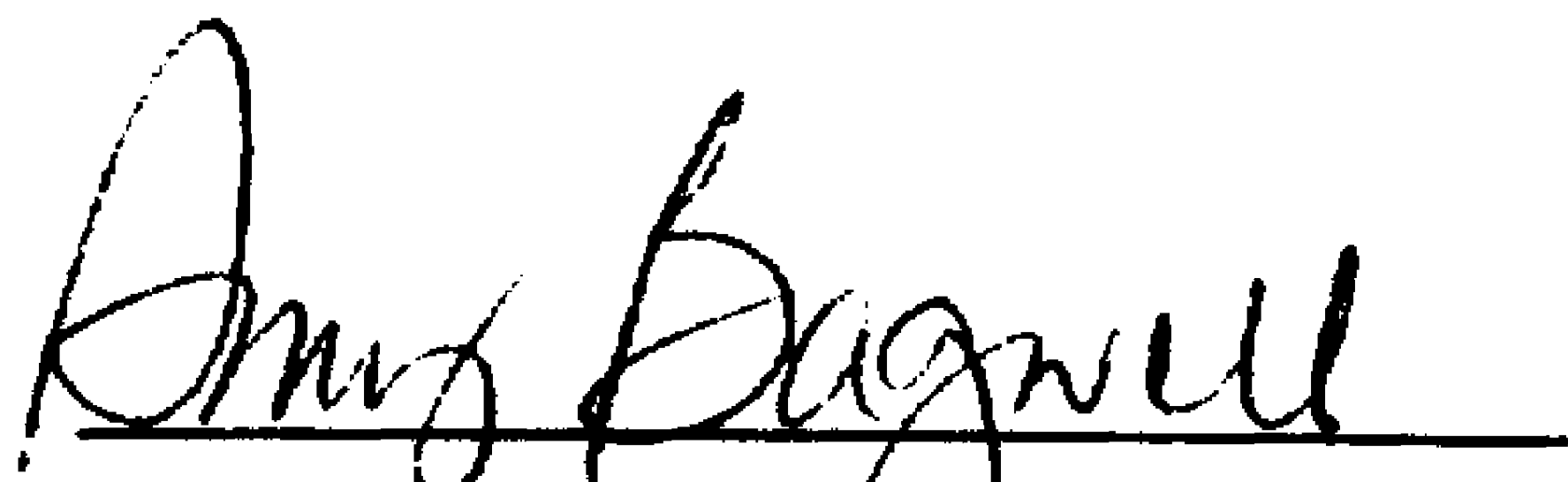
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.572
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.3
% on Pan		10.0 Max.	1.9
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	4
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.027
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200807

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-1-92Product: 5385Car No.: 45783Time Logged In: 2400Logged In By: D.J.Silo(s): 676 + 677Ship Date: 11/2Order No: 0018058-000Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.14</u>		<u>.17</u>		<u>.16</u>		<u>.14</u>	
Contamination	BL							
	BR							
	<u>4</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>4</u>	<u>—</u>
	<u>6</u>		<u>9</u>		<u>10</u>		<u>7</u>	
Bulk Density	<u>.569</u>		<u>.575</u>		<u>.570</u>		<u>.574</u>	
BD after Fluff								
Hard Particle 5	<u>10</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>4</u>							
Viscosity	<u>.924</u>							
RVCM	<u>.027</u>							
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.39</u>	<u>9.70</u>	<u>15.39</u>	<u>12.35</u>	<u>7.17</u>	<u>4.13</u>	<u>.94</u>
%	<u>0.0</u>	<u>.8</u>	<u>19.4</u>	<u>30.8</u>	<u>24.5</u>	<u>14.3</u>	<u>8.3</u>	<u>1.9</u>

Drytime: 5.0Static Flow: 0 / 9.2Avg. Microns: 152.6Color L: 100.42 a -0.02 b 1.56Technician: MATE

VAB.0001200808

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: November 6, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41180

Ship Date: November 4, 1992

Order No.: 0018152-001

VISTA

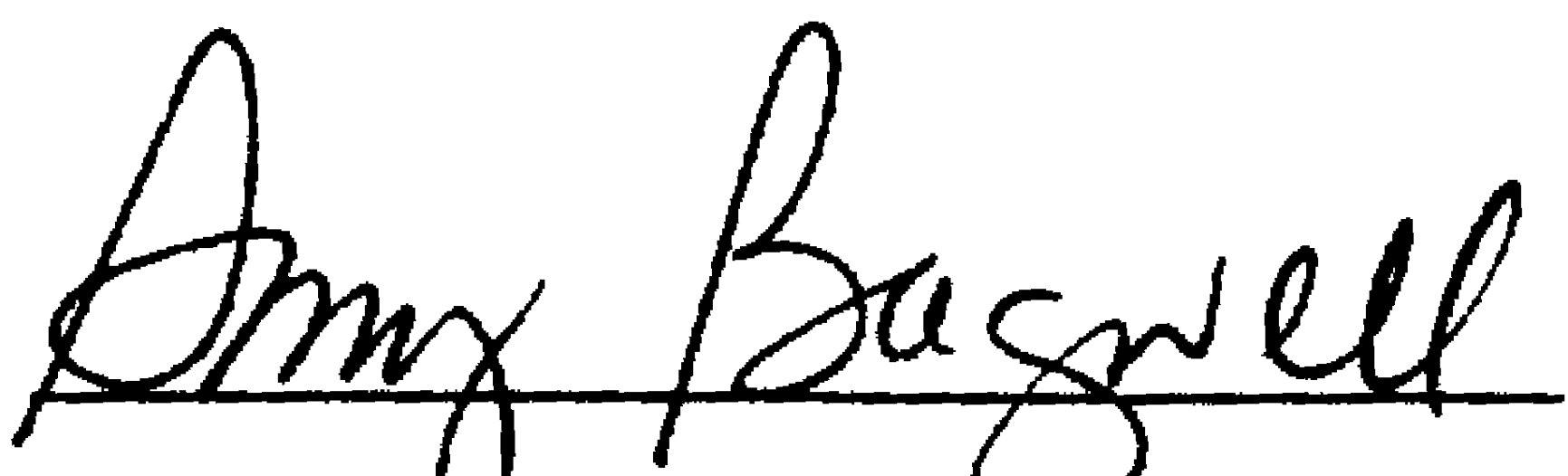
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.593
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.7
% on Pan		10.0 Max.	3.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.745
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200809

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

ACFX

Load Date: 11-4-92Product: 5385Car No.: 41180Time Logged In: 2350Logged In By: COSilo(s): 685Ship Date: 11/4/92Order No: 0018152-001Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.18		.17	
Contamination	BL							
	BR							
	<u>5</u>	—	<u>4</u>	—	<u>7</u>	—	<u>9</u>	—
	<u>8</u>		<u>10</u>		<u>8</u>		<u>12</u>	
Bulk Density	.593		.591		.594		.593	
BD after Fluff								
Hard Particle 5	<u>8</u>	—	—	—	—	—	—	—
7	<u>2</u>							
Viscosity	.920							
RVCM	.745							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.34</u>	<u>9.13</u>	<u>14.46</u>	<u>12.07</u>	<u>7.49</u>	<u>4.86</u>	<u>1.56</u>
%	<u>0.0</u>	<u>0.7</u>	<u>18.3</u>	<u>28.9</u>	<u>24.3</u>	<u>15.0</u>	<u>9.7</u>	<u>3.1</u>

Drytime: 5.0Static Flow: 0 / 8.1Avg. Microns: 149.0Color L: 100.53 a -0.03 b 1.67Technician: MO

VAB.0001200810

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 11/6/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.:

Attention: Plant Chemist

Trailer No.: T-382

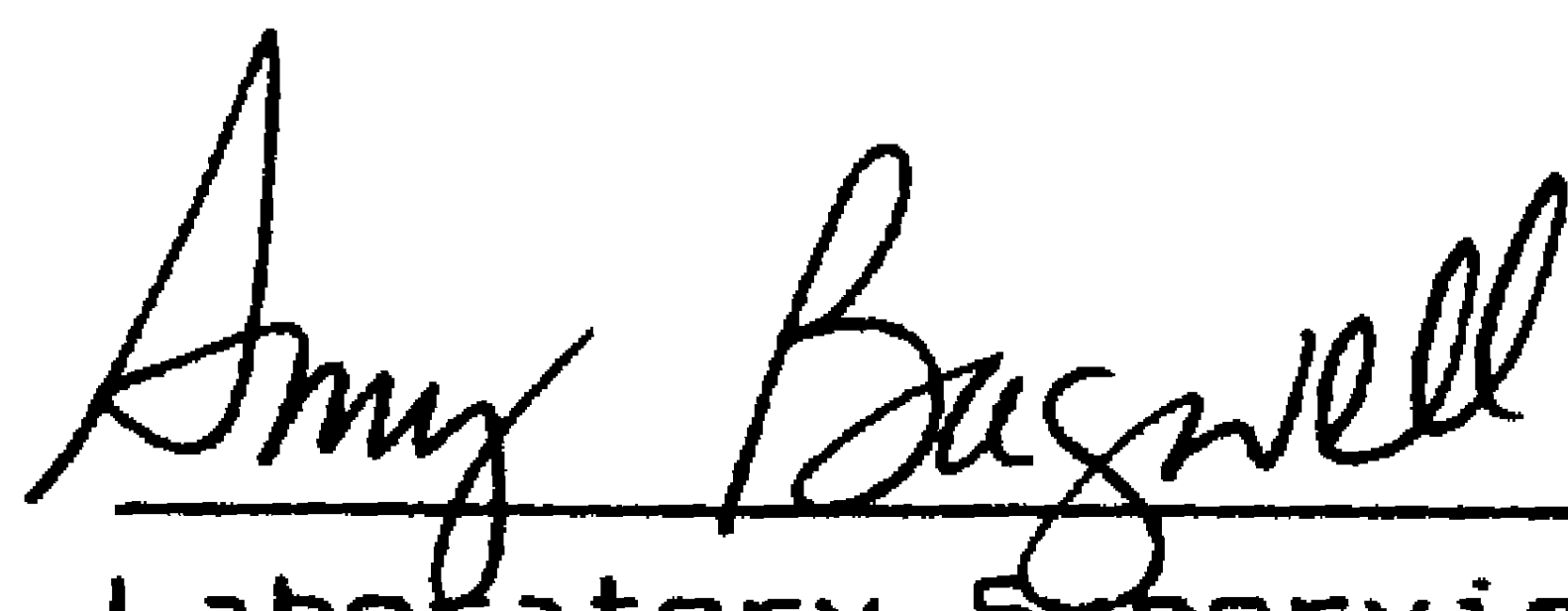
Ship Date:

Order No.: 0018333-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>0.11</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>0.576</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>5.3</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>9.2</u>
Pan		10.0 Max.	<u>2.2</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>0</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>4</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>0.94</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001200811

PVC BULK TRAILER ANALYSIS

A

Date 11-2-92 Product 5385 Trailer Number 17385
 Customer Weyerhaeuser Silo 676 Time 0950
 Technician MS Order No. 0018333 - 000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>4/5</u>		1. <u>12/9</u>	1. <u>.576</u>	1. <u>5.3</u>	L = <u>100.57</u>	<u>Flow</u> <u>0/10.4</u>	
	2.		2.		2.	2.	2.	A = <u>.06</u>		
MIDDLE	1.		1.		1.	1.	1.	L =	<u>Glassies</u> <u>0</u>	
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis 10 Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.31</u>	<u>8.54</u>	<u>15.47</u>	<u>12.63</u>	<u>7.44</u>	<u>4.60</u>	<u>1.10</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>17.1</u>	<u>30.9</u>	<u>25.1</u>	<u>14.9</u>	<u>9.2</u>	<u>2.2</u>	

Screen Analysis Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

1V - .94

Remarks _____

VISTA[®]

No. CR 02123

Date of Report
11/4/92

From	Pro Number		Trailer Number
GENCORP POLYMER PRODUCTS			T-382
YORKVILLE RD.	Prepaid	Collect	Rail Car Number
COLUMBUS, MS 39701	Collect Amount		Condition
Delivered By	\$		

[illegible]

Reason for Return		Remarks
CUSTOMER CLAIMS		
CONTAMINATED (YELLOW SPECKS)		
CONTAMINATION ON CUSTOMER'S SCREEN		
Disposition		Delivered To
Return Authorized By	Date Originally Shipped	Received By
		VAB.0001200813

A

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: November 11, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: VIPX 45785

Ship Date: November 9, 1992

Order No.: 0018152-002

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.12
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.594
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.5
% on Pan		10.0 Max.	2.5
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.044
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200814

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 11-6-92Product: 5385Car No.: 45785Time Logged In: 0100Logged In By: COSilo(s): 685-676Ship Date: 11/9Order No: 0018152-002Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.12</u>		<u>.03</u>		<u>.05</u>		<u>.03</u>	
Contamination	BL <u>5</u>	—	16 <u>16</u>	—	4 <u>4</u>	—	3 <u>3</u>	—
	BR <u>22</u>		29 <u>29</u>		10 <u>10</u>		12 <u>12</u>	
Bulk Density	<u>593</u>		<u>594</u>		<u>596</u>		<u>592</u>	
BD after Fluff								
Hard Particle 5 <u>7</u>		—	—	—	—	—	—	—
7 <u>2</u>								
Viscosity	<u>.929</u>							
RVCM	<u>.044</u>							
40 Mesh/Glassies		<u>0</u>		<u>0</u>	<u>/</u>	<u>0</u>		<u>0</u>

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.22</u>	<u>6.12</u>	<u>12.77</u>	<u>15.61</u>	<u>8.94</u>	<u>5.25</u>	<u>1.26</u>
%	<u>0.0</u>	<u>.4</u>	<u>12.2</u>	<u>25.5</u>	<u>31.0</u>	<u>17.9</u>	<u>10.5</u>	<u>2.5</u>

Drytime: 5.0Static Flow: 0 17.8Avg. Microns: 142.4Color L: 100.36 a -0.06 b 1.76Technician: M.T. + R14

VAB.0001200815

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: November 11, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

VISTA

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46416

Ship Date: November 9, 1992

Order No.: 0018152-003

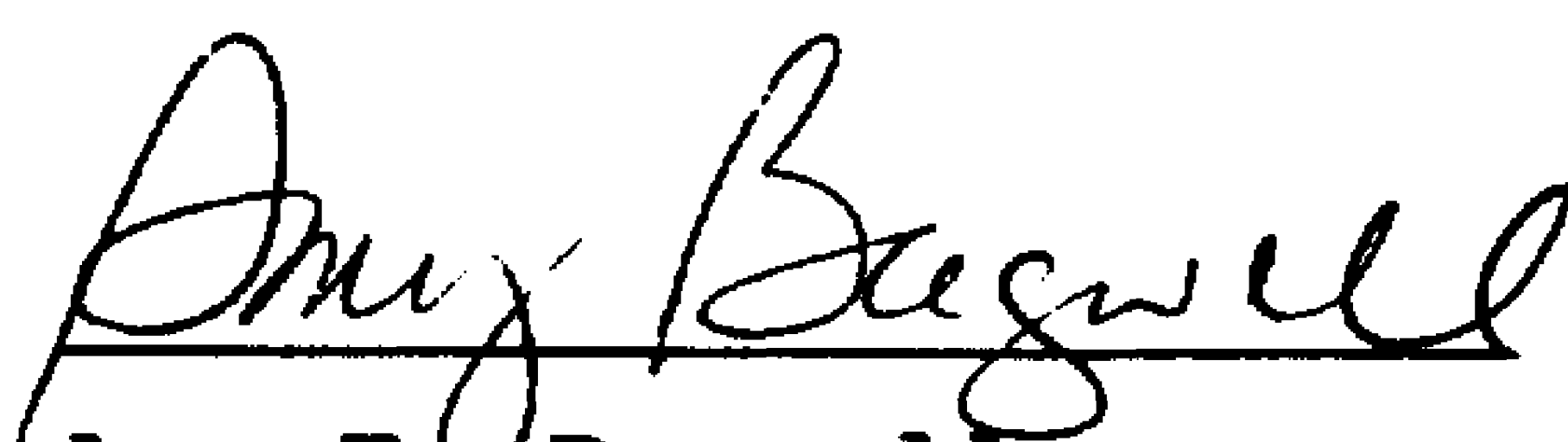
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.590
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.6
% on Pan		10.0 Max.	1.9
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	10
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.535
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200816

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-9-92Product: 5385Car No.: 46416Time Logged In: 0615Logged In By: mwSilo(s): 676, 677, 685Ship Date: 11/9Order No: 0018152-003Customer: GencorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.15		.15	
Contamination	BL	<u>3</u>	<u>4</u>		<u>3</u>		<u>5</u>	
	BR	<u>11</u>	<u>24</u>		<u>38</u>		<u>36</u>	
Bulk Density	.584		.592		.592		.590	
BD after Fluff								
Hard Particle 5	<u>40</u>							
	<u>10</u>							
Viscosity	.924							
RVCM	.535							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.36</u>	<u>8.78</u>	<u>13.08</u>	<u>14.76</u>	<u>7.68</u>	<u>4.30</u>	<u>0.96</u>
%	<u>0.0</u>	<u>0.7</u>	<u>17.6</u>	<u>26.2</u>	<u>29.6</u>	<u>15.4</u>	<u>8.6</u>	<u>1.9</u>

Drytime: 5.0Static Flow: 0.89Avg. Microns: 149.4Color L: 100.33 a 0.04 b 1.67Technician: D.T.+HDL

VAB.0001200817

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 11/16/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Lot No.: 04995

Attention: Plant Chemist

Trailer No.: T-480269

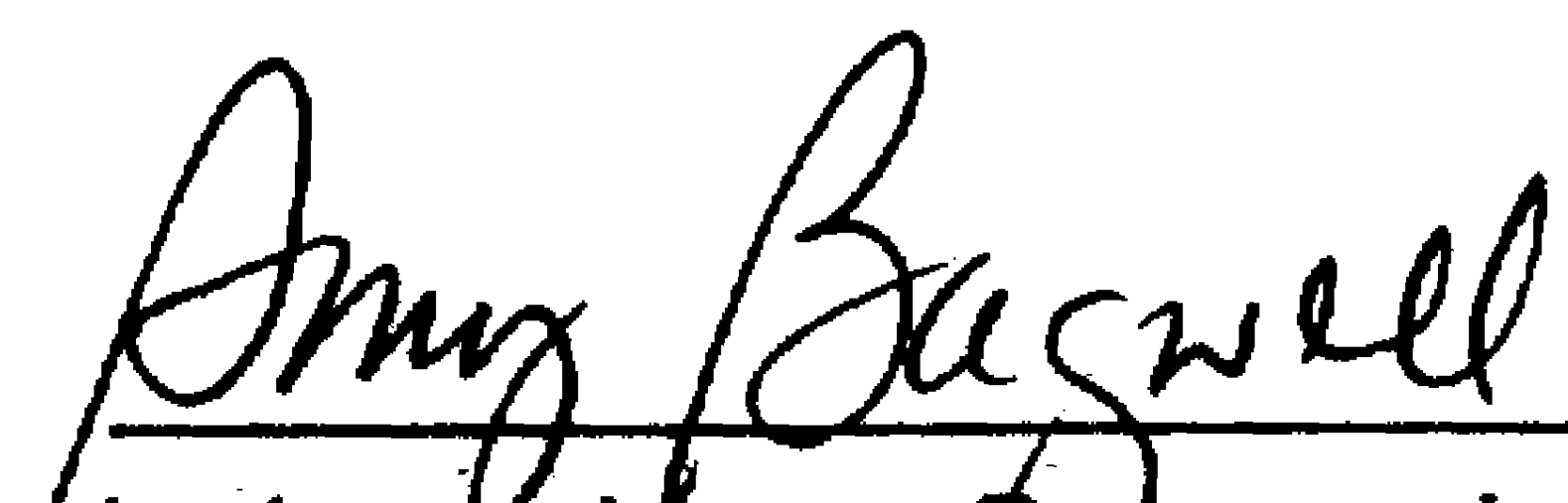
Ship Date: 11/12/92

Order No.: 0018496-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	<u>0.18</u>
Bulk Density, GM/CC	ABR-2A	.510 Min.	<u>0.600</u>
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	<u>4.8</u>
Particle Size, % on	ABR-3		
40 Mesh		0.1 Max.	<u>0.0</u>
200 Mesh		NDS	<u>8.0</u>
Pan		10.0 Max.	<u>2.6</u>
40 Mesh Glassies	ABR-6	5 Max.	<u>-0-</u>
Hard Particles, 7 Mins.	ABR-12	25 Max.	<u>5</u>
Vinyl Chloride Monomer	ABGC-26	8.5 Max.	Not more than 8.5 PPM
Inherent Viscosity	ABR-10	.90 to .95	<u>0.93</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

RES BAG BLEND

BLEND NO: 04995

PRODUCT: 5385

DATE: 7-13-92

TIME/TESTED BY: 1100-MHHA

Avg. Microns, 5225/5325/5415: _____

SKID NO.	% MOIST	BLACK/ BROWN CONT.	PARTICLE SIZE DISTRIBUTION								BULK DENS	S/7 MIN. H/P	DRY TIME	STATIC FLOW	C O L O R			CPA	% GLASSY	VISC.	RVCM
			40	60	80	100	120	140	200	PAN					L	A	B				
COM- POSITE RESULTS	COMPOSITE OF 1, 13, 25 & 37		0.00	2.58	15.62	12.48	8.91	5.08	4.00	1.28	.600	50/ 5 MOD		0/ 8.8	100.64	.09	1.76				.021
SKID #1	.13	11/2	> III Pipe only																		.929
SKID #4	.10	54/17																			.
SKID #7	.14	14/9																			
SKID #10	.18	16/5	Type I																		
SKID #13	.18	9/7																			.933
SKID #16	.15	13/5																			
SKID #19	.16	15/6																			
SKID #22	.17	14/3																			
SKID #25	.17	13/5																			.932
SKID #28	.18	14/2																			
SKID #31	.15	13/5																			
SKID #34	.14	9/3																			
SKID #37	.16	28/3																			.929

CERTIFICATE OF ANALYSIS

Date: November 24, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46431

Ship Date: November 23, 1992

Order No.: 0018476-000

VISTA

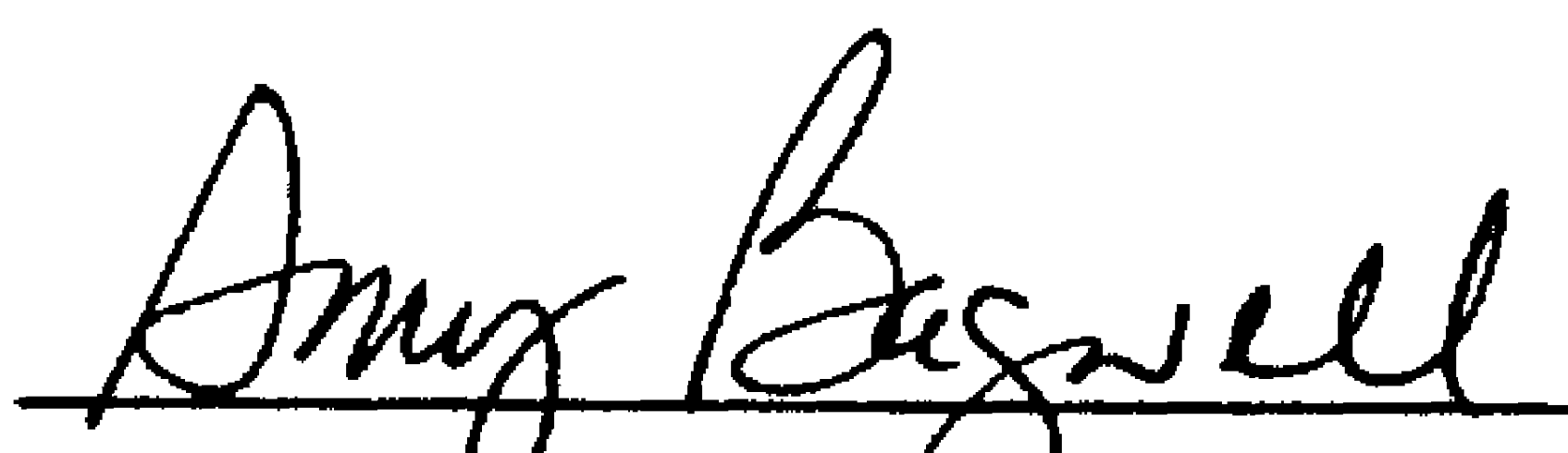
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.590
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.0
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	1

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
2	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	4
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.098
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200820

A

Viata Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-20-92

Product: 5385

Car No.: 46431

Time Logged In: 1030

Logged In By: M.T

Silo(s): 676-677

Ship Date: 11/23

Order No: 18476-000

Customer: GenCorp

Normal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.12		.18		.15	
Contamination	BL							
	BR							
Bulk Density	.600		.584		.594		.582	
BD after Fluff								
Hard Particle 5	23							
7	4							
Viscosity	.920							
RVCM	.098							
40 Mesh/Glassies	2		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.70</u>	<u>9.70</u>	<u>13.18</u>	<u>13.50</u>	<u>7.32</u>	<u>4.51</u>	<u>1.5</u>
%	<u>0.0</u>	<u>1.4</u>	<u>19.4</u>	<u>26.4</u>	<u>27.1</u>	<u>14.6</u>	<u>9.0</u>	<u>2.1</u>

Drytime: 4.8

Static Flow: 0 18.6

Avg. Microns: 1520

Color L: 100.52 a -0.00 b 1.61

VAB.0001200821

Technician: D.T. + R.H.

CERTIFICATE OF ANALYSIS

Date: November 25, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 43862

Ship Date: November 24, 1992

Order No.: 0018476-001

VISTA

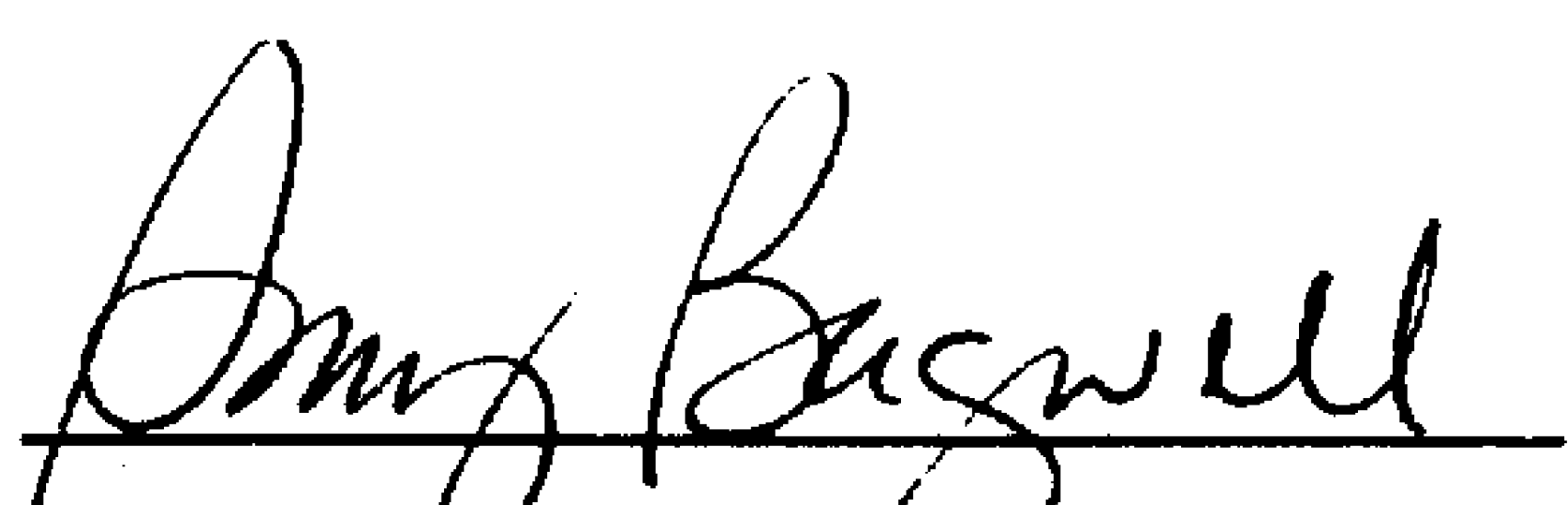
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.587
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	5.9
% on Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.102
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200822

Viata Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-23-92Product: 5385Car No.: 43862Time Logged In: 0100Logged In By: MMSilo(s): 476, 477, 685Ship Date: 11/24Order No: 18476-001Customer: Type I - ~~to test~~BurroughsNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.15		.13		.13	
Contamination	BL <u>10</u>	—	7	—	9	—	5	—
	BR <u>10</u>		8		11		8	
Bulk Density	.588		.586		.588		.588	
BD after Fluff								
Hard Particle 5	13	—	—	—	—	—	—	—
	7 <u>5 HDL</u>							
Viscosity	.930							
RVCM	.102							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.34</u>	<u>14.70</u>	<u>15.50</u>	<u>10.05</u>	<u>4.75</u>	<u>2.95</u>	<u>0.90</u>
%	<u>0.0</u>	<u>2.7</u>	<u>29.4</u>	<u>31.0</u>	<u>19.7</u>	<u>9.5</u>	<u>5.9</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0 18.8Avg. Microns: 166.4Color L: 100.40 a 0.04 b 1.68

VAB.0001200823

Technician: P.T. + HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A 1

CERTIFICATE OF ANALYSIS

Date: November 30, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45756

Ship Date: November 25, 1992

Order No.: 0018476-003

VISTA

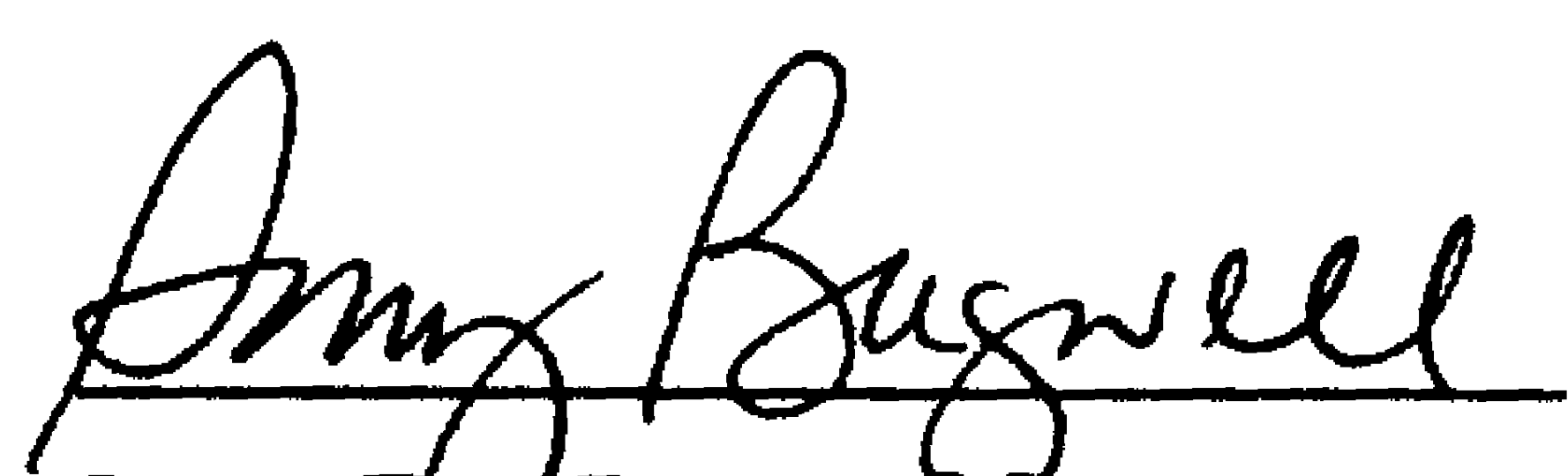
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.563
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.7
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.4
% on Pan		10.0 Max.	2.2
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.099
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200824

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-25-92 Product: 5385 Car No.: 45756
 Time Logged In: 1230 Logged In By: D.T. Silo(s): 676+677
 Ship Date: 11/25 Order No: 0018476-003 Customer: GenCorp

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.15		.13	
Contamination	BL <u>11</u>	—	5	—	8	—	5	—
	BR <u>43</u>		14		30		30	
Bulk Density	.568		.576		.554		.556	
BD after Fluff								
Hard Particle 5	<u>20</u>	—	—	—	—	—	—	—
7	<u>3 HDL</u>							
Viscosity	.930							
RVCM	.099							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.22</u>	<u>8.71</u>	<u>15.76</u>	<u>13.18</u>	<u>6.61</u>	<u>4.20</u>	<u>1.08</u>
%	<u>0.0</u>	<u>0.4</u>	<u>17.4</u>	<u>31.5</u>	<u>26.9</u>	<u>13.2</u>	<u>8.4</u>	<u>2.2</u>

Drytime: 4.7 Static Flow: 0, 10.3 Avg. Microns: 150.3

Color L: 100.54 a 0.02 b 1.48

VAB.0001200825

Technician: D.T. + HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: November 30, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

VISTA

Attention: Plant Chemist

Railcar No.: VIPX 45308

Ship Date: November 25, 1992

Order No.: 0018476-002

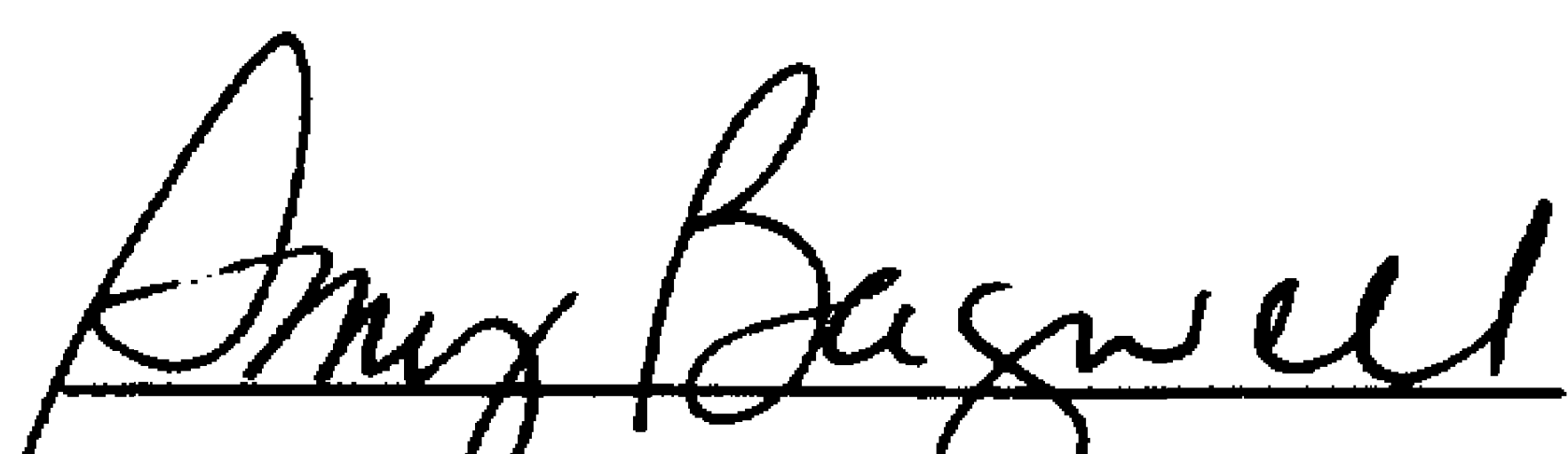
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.0
% on Pan		10.0 Max.	1.9
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	4
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.424
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200826

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-23-92Product: 5385Car No.: 45308 ^{VIPV}Time Logged In: 2330Logged In By: MSSilo(s): 676, 677, 685Ship Date: 11/25/92 Order No: 0018476-002 Customer: GenCorp

NO TMAAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.17		.17		.15		.15	
Contamination	BL							
	BR							
	<u>11</u>	—	<u>5</u>	—	<u>13</u>	—	<u>7</u>	—
	<u>8</u>		<u>6</u>		<u>10</u>		<u>9</u>	
Bulk Density	.585		.583		.575		.582	
BD after Fluff								
Hard Particle 5	<u>18</u>	—	—	—	—	—	—	—
	<u>7</u>							
Viscosity	.923							
RVCM	.424							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.44</u>	<u>11.25</u>	<u>16.52</u>	<u>11.63</u>	<u>5.58</u>	<u>3.48</u>	<u>0.95</u>
%	<u>0.0</u>	<u>0.9</u>	<u>22.5</u>	<u>33.0</u>	<u>23.5</u>	<u>11.2</u>	<u>7.0</u>	<u>1.9</u>

Drytime: 5.0 Static Flow: 0 / 8.4 Avg. Microns: 157.0Color L: 100.60 a - 0.04 b 154

VAB.0001200827

Technician: D.T. + HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: December 3, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44410

Ship Date: December 1, 1992

Order No.: 0018476-004

VISTA

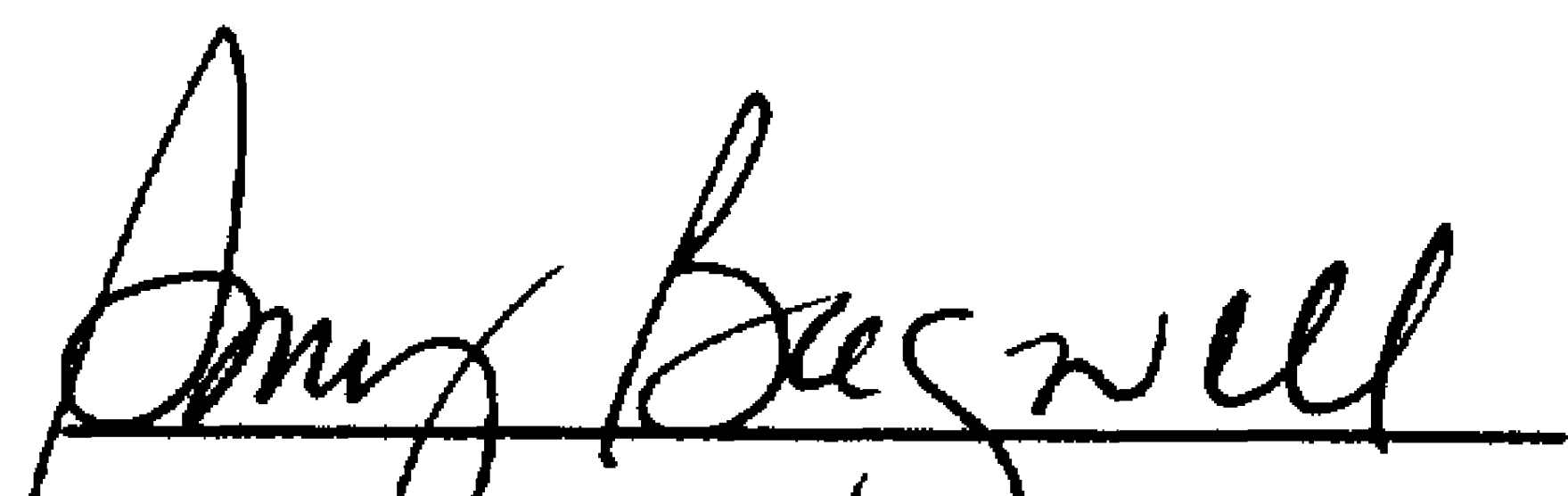
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.578
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.9
% on Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.263
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200828

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

PLWY

Load Date: 11-27-92Product: 5385Car No.: 44410Time Logged In: 0100Logged In By: P.T.Silo(s): 676+677Ship Date: 12/1/92 Order No: 0018476-004 Customer: GenCorp

No MemL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.15		.17	
Contamination	BL		12		10		1	
	BR		16		16		22	
Bulk Density	.580		.576		.586		.592	
BD after Fluff								
Hard Particle 5/7	1/200							
Viscosity	.935							
RVCM	.263							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.18	7.15	15.42	14.03	7.50	4.45	1.20
%	0.0	0.4	14.3	30.8	28.2	15.0	8.9	2.4

Drytime: 4.8 Static Flow: 0 18.8 Avg. Microns: 146.9Color L: 100.31 a -0.01 b 1.76Technician: P.T.+D.L.

VAB.0001200829

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 11-30-92Product: 5385Car No.: 44410Time Logged In: 0100Logged In By: DTSilo(s): 676+677

Ship Date: _____ Order No: _____ Customer: _____

Compartment	<u>A</u>		CA		<u>CB</u>		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>top</u>				<u>top</u>			
Contamination	BL	<u>3</u>	—	—	<u>2</u>	—	—	—
	BR	<u>4</u>	—	—	<u>6</u>	—	—	—
Bulk Density								
BD after Fluff								
Hard Particle 5 7	—	—	—	—	—	—	—	—
Viscosity								
RVCM								
40 Mesh/Glassies	<u>0</u>				<u>0</u>			

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	_____	_____	_____	_____	_____	_____	_____	_____
%	_____	_____	_____	_____	_____	_____	_____	_____

Drytime: _____ Static Flow: _____ / _____ Avg. Microns: _____

Color L: _____ a _____ b _____

Technician: DT + ES

VAB.0001200830

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: December 7, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 45864

Ship Date: December 3, 1992

Order No.: 0018476-005

VISTA

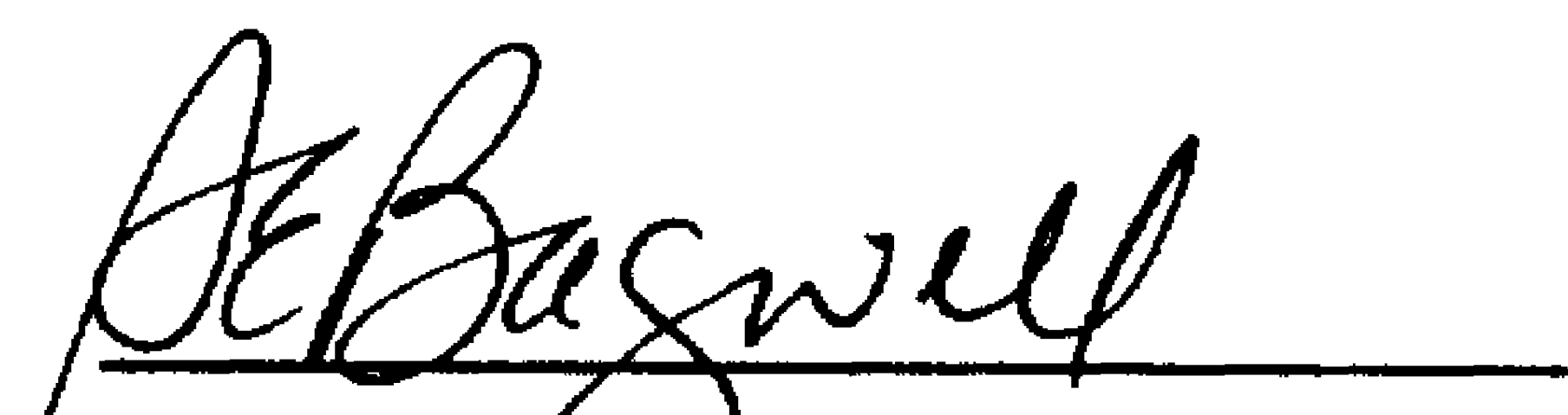
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.580
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	14.5
% on Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.143
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200831

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

ACF4

Load Date: 12-2-92Product: 5385Car No.: 45864Time Logged In: 2400Logged In By: COSilo(s): 676Ship Date: 12/3/92 Order No: 0018476-005 Customer: Gencorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.11		.13		.16	
Contamination	BL							
	BR							
	<u>4</u> <u>6</u>	—	<u>3</u> <u>5</u>	—	<u>5</u> <u>7</u>	—	<u>4</u> <u>4</u>	—
Bulk Density	.582		.579		.580		.579	
BD after Fluff								
Hard Particle 5 7	<u>10</u> <u>2</u>	—	—	—	—	—	—	—
Viscosity	.928							
RVCM	.143							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.19</u>	<u>5.45</u>	<u>11.85</u>	<u>13.86</u>	<u>10.23</u>	<u>7.27</u>	<u>.92</u>
%	<u>0.0</u>	<u>.4</u>	<u>10.9</u>	<u>23.7</u>	<u>28.2</u>	<u>20.5</u>	<u>14.5</u>	<u>1.8</u>

Drytime: 4.9 Static Flow: 0 / 7.8 Avg. Microns: 139.2Color L: 100.33 a .05 b 1.71Technician: MA

VAB.0001200832

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: December 10, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41162

Ship Date: December 9, 1992

Order No.: 0019557-000

VISTA

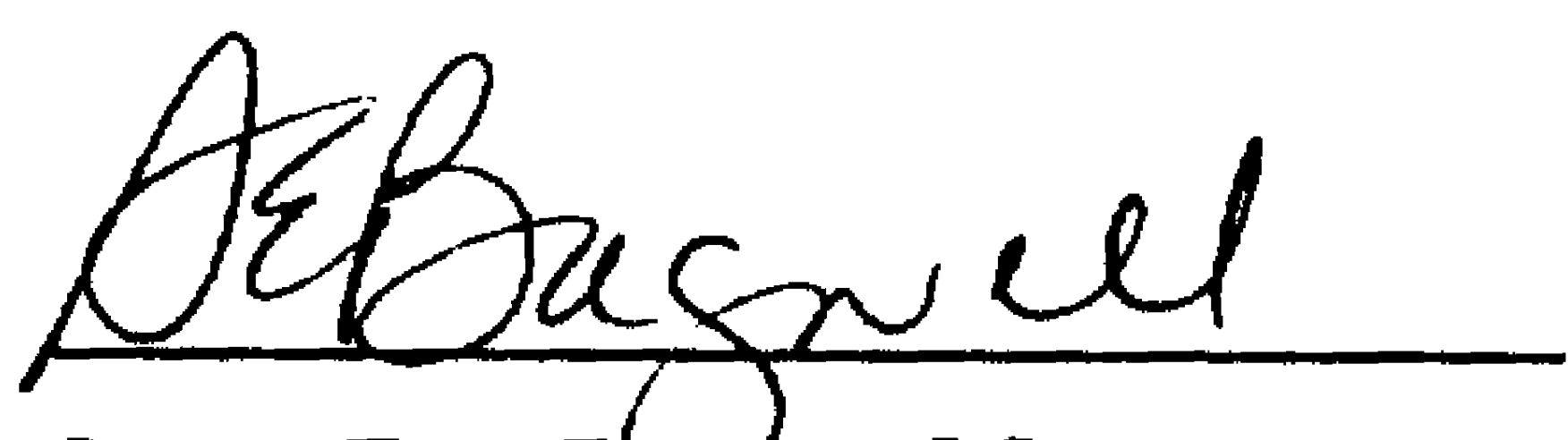
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.587
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.5
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.4
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.067
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200833

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

ACFD

Load Date: 12-8-92Product: 5385Car No.: 41162Time Logged In: 1730Logged In By: D.T.Silo(s): 676, 677, 685Ship Date: 12/9/92 Order No: 0019557-000 Customer: Gencorp

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.67		.12		.16		.14	
Contamination	BL		5		5		9	
	BR		14		13		10	
Bulk Density	.586		.588		.588		.588	
BD after Fluff								
Hard Particle 5	11							
7	5 HPL							
Viscosity	.928							
RVCM	.067							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.53</u>	<u>9.05</u>	<u>14.85</u>	<u>12.92</u>	<u>7.30</u>	<u>1.22</u>	<u>1.07</u>
%	<u>0.0</u>	<u>1.1</u>	<u>18.1</u>	<u>29.7</u>	<u>26.0</u>	<u>14.6</u>	<u>8.4</u>	<u>2.1</u>

Drytime: 4.5 Static Flow: 0 18.3 Avg. Microns: 151.6Color L: 100 .51 a 0.05 b 1.78Technician: D.T. + H.D.L.

VAB.0001200834

CERTIFICATE OF ANALYSIS

Date: December 16, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46414

Ship Date: December 14, 1992

Order No.: 0019557-001

VISTA

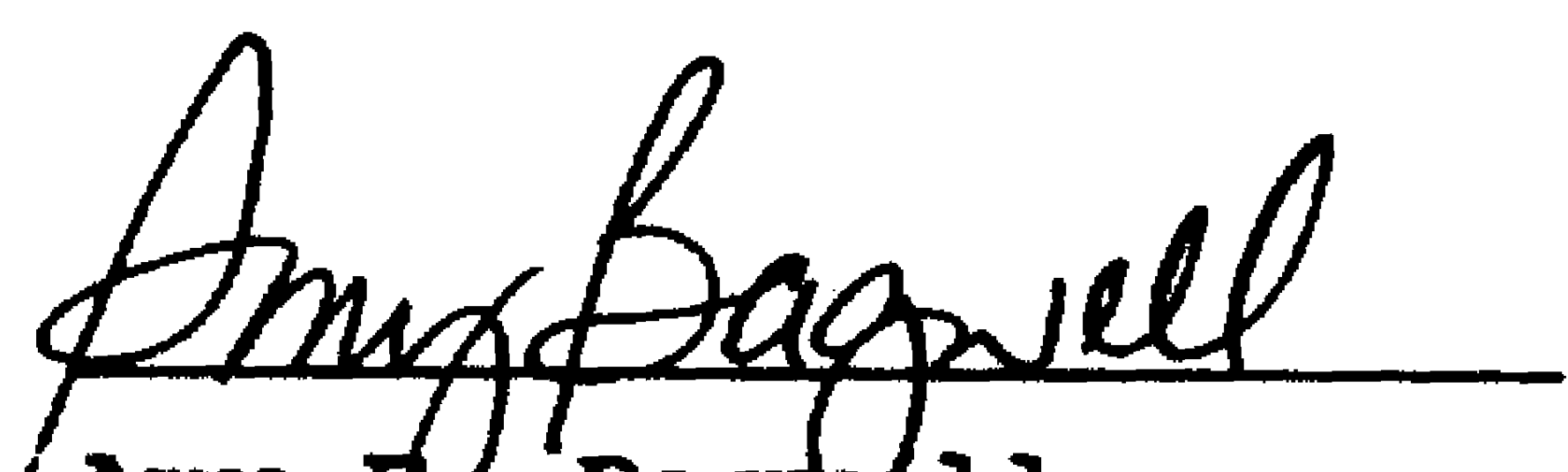
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.582
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.9
% on Pan		10.0 Max.	2.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.093
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200835

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 12-8-92Product: 5385Car No.: 46414 ^{UTC4}Time Logged In: 2200Logged In By: MJTSilo(s): 676-22-85Ship Date: 12/14/92 Order No: 0019557-001 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.16		.17		.15	
Contamination	BL <u>3</u>	—	2	—	4	—	8	—
	BR <u>8</u>		7		9		3	
Bulk Density	.580		.598		.576		.575	
BD after Fluff								
Hard Particle	5 <u>6</u>	—	—	—	—	—	—	—
	7 <u>2</u>							
Viscosity	.933							
RVCN	.093							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.87</u>	<u>7.70</u>	<u>13.28</u>	<u>14.02</u>	<u>8.09</u>	<u>4.94</u>	<u>1.00</u>
%	<u>0.0</u>	<u>1.7</u>	<u>15.4</u>	<u>26.6</u>	<u>28.2</u>	<u>16.2</u>	<u>9.9</u>	<u>2.0</u>

Drytime: 4.9 Static Flow: 0 17.5 Avg. Microns: 149.0Color L: 100.46 a .13 b 1.81Technician: CO

VAB.0001200836

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: December 17, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41166

Ship Date: December 16, 1992

Order No.: 0019557-002

VISTA

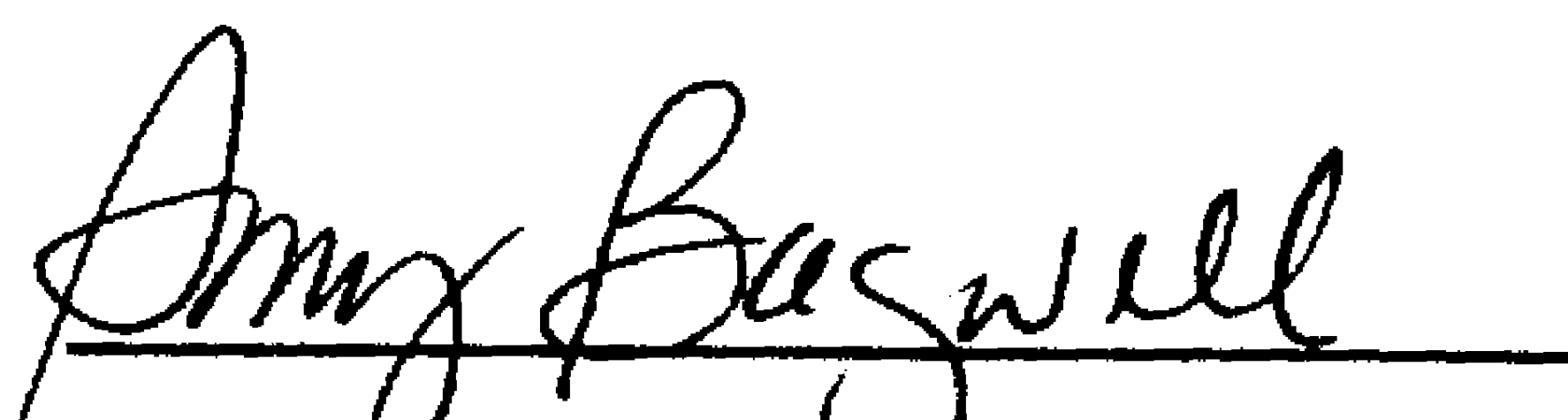
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.585
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.6
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.6
% on Pan		10.0 Max.	2.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.029
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200837

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

ACFX

Load Date: 12-10-92Product: 5385Car No.: 41166Time Logged In: 1300Logged In By: CoSilo(s): 676, 622, 685Ship Date: 12/16/92 Order No: 0019557002 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.03		.02		.03	
Contamination	BL							
	BR							
	<u>3</u>	—	<u>4</u>	—	<u>3</u>	—	<u>2</u>	—
	<u>5</u>		<u>6</u>		<u>10</u>		<u>9</u>	
Bulk Density	.582		.590		.587		.581	
BD after Fluff								
Hard Particle 5	<u>10</u>	—	—	—	—	—	—	—
7	<u>2</u>							
Viscosity	.929							
RVCM	.029							
40 Mesh/Glassies	0	0	0	0	2 Brn Cont	0	1 Brn Cont	0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.46</u>	<u>6.61</u>	<u>13.74</u>	<u>14.43</u>	<u>8.03</u>	<u>4.82</u>	<u>1.17</u>
%	<u>0.0</u>	<u>.9</u>	<u>13.2</u>	<u>27.5</u>	<u>30.4</u>	<u>16.1</u>	<u>9.6</u>	<u>2.3</u>

Drytime: 4.6 Static Flow: 0 19.3 Avg. Microns: 145.7Color L: 100.45 a 0.07 b 1.88Technician: MT & RH

VAB.0001200838

CERTIFICATE OF ANALYSIS

VISTA

Date: 12/21/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45878

Ship Date: 12/18/92

Order No.: 0019557-003

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.12
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.579
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.3
% on Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.266
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200839

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 12-15-92Product: 5385Car No.: VIPX
45878Time Logged In: 1300Logged In By: MMSilo(s): 676, 677, 685Ship Date: 12/18/92Order No: 0019557-003Customer: GencorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.06		.12		.12	
Contamination	BL							
	BR							
	<u>2</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>2</u>	<u>—</u>	<u>1</u>	<u>—</u>
	<u>5</u>		<u>7</u>		<u>6</u>		<u>5</u>	
Bulk Density	.577		.577		.571		.590	
BD after Fluff								
Hard Particle 5	<u>29</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>3</u>							
Viscosity	.930							
RVCM	.266							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.33</u>	<u>8.62</u>	<u>15.04</u>	<u>13.34</u>	<u>7.09</u>	<u>4.13</u>	<u>1.19</u>
%	<u>0.0</u>	<u>1.1</u>	<u>17.2</u>	<u>30.1</u>	<u>26.7</u>	<u>14.2</u>	<u>8.3</u>	<u>2.4</u>

Drytime: 5.0Static Flow: 0 173Avg. Microns: 150.8Color L: 100.23 a .13 b 1.94Technician: W + ES

VAB.0001200840

CERTIFICATE OF ANALYSIS

VISTA

Date: 12/21/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46505

Ship Date: 12/19/92

Order No.: 0019557-004

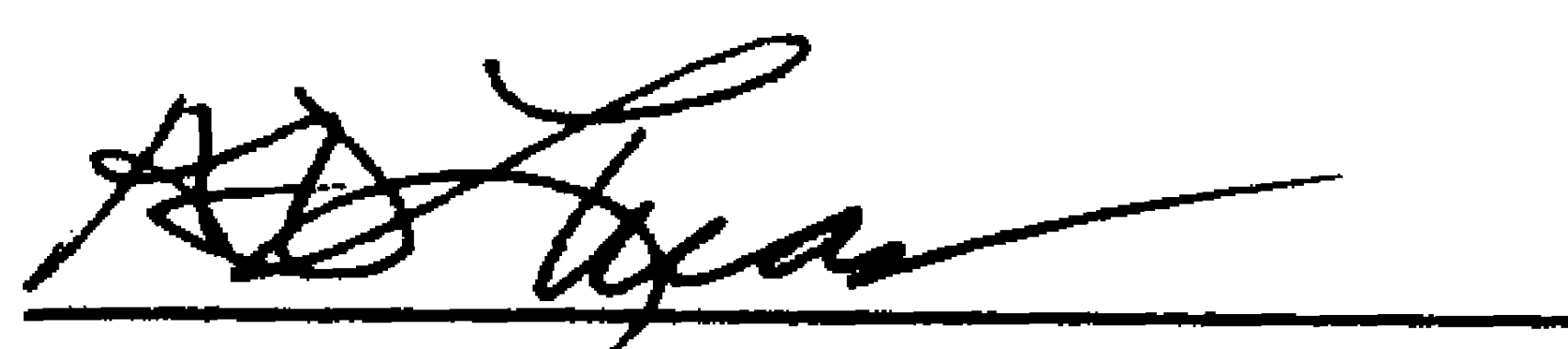
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.586
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.6
% on Pan		10.0 Max.	2.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	5
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.218
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200841

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

UTX

Load Date: 12-10-92Product: 5385Car No.: 46505Time Logged In: 2400Logged In By: MTSilo(s): 676-77-85Ship Date: 12/19/92Order No: 0019557-004Customer: GENCORP

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.16</u>		<u>.14</u>		<u>.13</u>		<u>.18</u>	
Contamination ^{BL} ^{BR}	<u>2</u> <u>5</u>	—	<u>3</u> <u>8</u>	—	<u>2</u> <u>7</u>	—	<u>4</u> <u>5</u>	—
Bulk Density	<u>.575</u>		<u>.593</u>		<u>.591</u>		<u>.583</u>	
BD after Fluff								
Hard Particle ⁵ ⁷	<u>12</u> <u>5</u>	—	—	—	—	—	—	—
Viscosity	<u>.930</u>							
RVCM	<u>0.218</u>		<u>0</u>		<u>0</u>		<u>0</u>	
40 Mesh/Glassies	<u>0</u>		<u>0</u>		<u>0</u>		<u>0</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.54</u>	<u>6.86</u>	<u>13.69</u>	<u>13.92</u>	<u>8.37</u>	<u>5.29</u>	<u>1.22</u>
%	<u>0.0</u>	<u>1.1</u>	<u>13.7</u>	<u>27.4</u>	<u>28.1</u>	<u>16.7</u>	<u>10.6</u>	<u>2.4</u>

Drytime: 4.9Static Flow: 0, 8.4Avg. Microns: 145.8Color L: 100.60 a 03 b 1.73Technician: CB

VAB.0001200842

CERTIFICATE OF ANALYSIS

VISTA

Date: 12/22/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45900

Ship Date: 12/21/92

Order No.: 0019963-001

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.21
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.589
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	6.1
% on Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	1
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.258
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200843

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

VIPY

Load Date: 12-18-92Product: 5385Car No.: 45900Time Logged In: 2400Logged In By: 6Silo(s): 677Ship Date: 12/21/92Order No: 0019963 001Customer: Genco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.21		.03		.02		.03	
Contamination BL	<u>3</u>	—	<u>4</u>	—	<u>3</u>	—	<u>5</u>	—
BR	<u>7</u>		<u>5</u>		<u>8</u>		<u>6</u>	
Bulk Density	.584		.584		.594		.595	
BD after Fluff	.589		.587		.596		.595	
Hard Particle 5	<u>7</u>	—	—	—	—	—	—	—
7	<u>1831</u>							
Viscosity	.928							
RVCM	.258							
40 Mesh/Glassies		0		0		0		0

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.22</u>	<u>13.89</u>	<u>14.44</u>	<u>11.07</u>	<u>5.58</u>	<u>3.03</u>	<u>.91</u>
%	<u>0.0</u>	<u>2.4</u>	<u>27.8</u>	<u>28.9</u>	<u>21.8</u>	<u>11.2</u>	<u>6.1</u>	<u>1.8</u>

Drytime: 4.8 Static Flow: 0.18.0 Avg. Microns: 163.5Color L: 100.22 a 0.17 b 1.81Technician: MT & RH

VAB.0001200844

CERTIFICATE OF ANALYSIS

VISTA

Date: 12/22/92

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46486

Ship Date: 12/21/92

Order No.: 0019963-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.581
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.0
% on Pan		10.0 Max.	2.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.031
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001200845

Vista Polymers

Highway 25

GENCORP?

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

UTCX

Load Date: 12-18-92Product: 5385Car No.: 96986Time Logged In: 0645Logged In By: D.T.Silo(s): 676, 677Ship Date: 12/21/92Order No: 0019963-000Customer: GENCORP

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.11		.14	
Contamination	BL							
	BR							
	<u>3</u>	—	<u>4</u>	—	<u>5</u>	—	<u>10</u>	—
	<u>5</u>		<u>6</u>		<u>6</u>		<u>29</u>	
Bulk Density	.583		.580		.579		.584	
BD after Fluff								
Hard Particle 5	<u>15</u>	—	—	—	—	—	—	—
7	<u>3 HCL</u>							
Viscosity	.922							
RVCM	.031							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.68</u>	<u>11.25</u>	<u>14.95</u>	<u>12.18</u>	<u>6.18</u>	<u>3.50</u>	<u>1.02</u>
%	<u>0.0</u>	<u>1.4</u>	<u>22.5</u>	<u>29.9</u>	<u>24.8</u>	<u>12.4</u>	<u>7.0</u>	<u>2.0</u>

Drytime: 5.0Static Flow: 0 17.9Avg. Microns: 156.9Color L: 99.82 a .16 b 1.84Technician: MD + PL

VAB.0001200846

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: December 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44376

Ship Date: December 28, 1992

Order No.: 0019557-006

VISTA

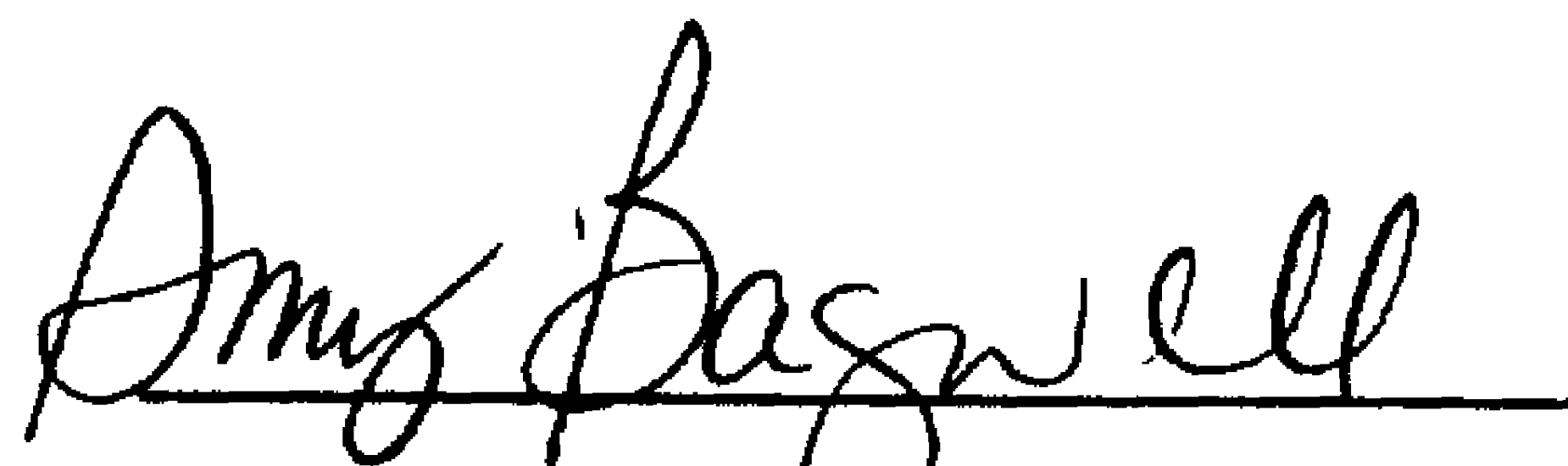
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.576
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	9.0
% on Pan		10.0 Max.	1.6
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.011
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200847

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

PLWY

Load Date: 12-25-92Product: 5385Car No.: 44376Time Logged In: 2400Logged In By: DTSilo(s): 676+677Ship Date: 12/28/92 Order No: 0019557-006 Customer: Gencorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.16		.12		.15	
Contamination	BL	<u>3</u>	<u>5</u>	<u>3</u>	<u>4</u>			
	BR	<u>7</u>	<u>8</u>	<u>9</u>	<u>5</u>			
Bulk Density	.577		.578		.572		.575	
BD after Fluff								
Hard Particle 5	<u>10</u>							
7	<u>2</u>							
Viscosity	.927							
RVCM	.011							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.26</u>	<u>9.48</u>	<u>14.82</u>	<u>12.85</u>	<u>7.21</u>	<u>4.50</u>	<u>.80</u>
%	<u>0.0</u>	<u>.5</u>	<u>19.0</u>	<u>29.6</u>	<u>25.9</u>	<u>14.4</u>	<u>9.0</u>	<u>1.6</u>

Drytime: 5.0Static Flow: 0 / 8.1Avg. Microns: 151.3Color L: 100.45 a .17 b 1.75Technician: MY

VAB.0001200848

CERTIFICATE OF ANALYSIS

Date: December 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: VIPX 45870

Ship Date: December 28, 1992

Order No.: 0019557-007

VISTA

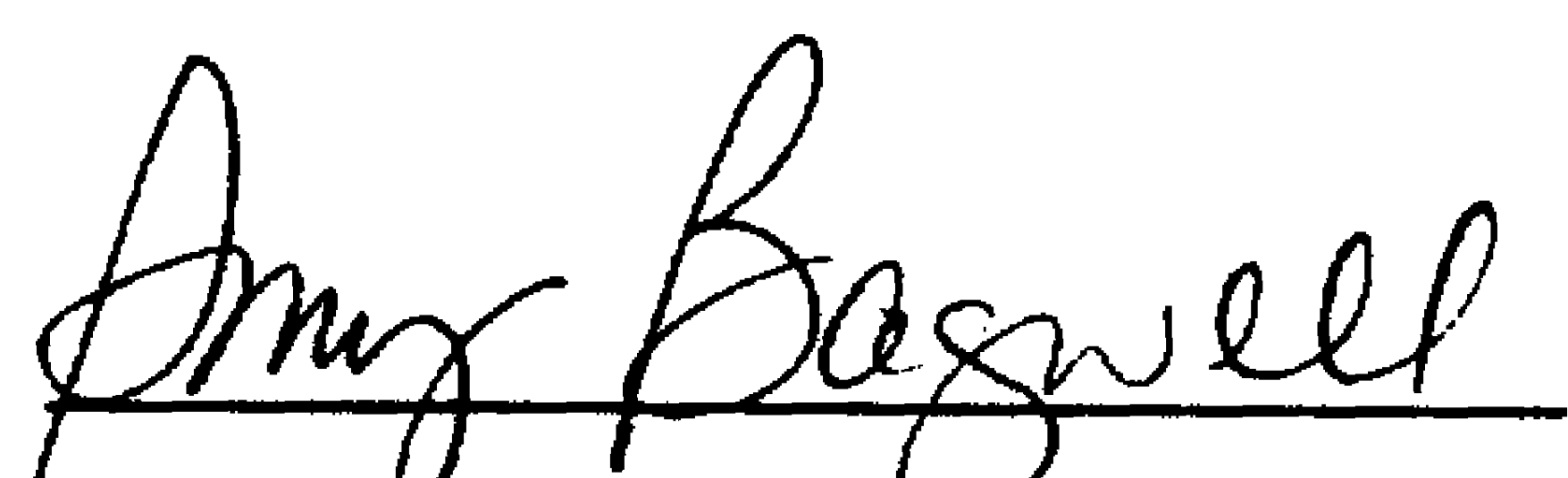
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.571
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	10.0
% on Pan		10.0 Max.	2.0
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	4
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.153
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200849

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

NIP4

Load Date: 12-25-92 Product: 5385 Car No.: 45870
 Time Logged In: 1300 Logged In By: ES Silo(s): 677, 676
 Ship Date: 12/28 Order No: 0019557-007 Customer: GenCorp

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.15		.15	
Contamination	BL							
	BR							
	<u>33</u>	—	<u>26</u>	—	<u>8</u>	—	<u>9</u>	—
	<u>74</u>		<u>36</u>		<u>9</u>		<u>15</u>	
Bulk Density	.568		.562		.578		.576	
BD after Fluff								
Hard Particle 5	<u>20</u>	—	—	—	—	—	—	—
7	<u>4 HDL</u>							
Viscosity	.928							
RVCN	.153							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.32</u>	<u>8.18</u>	<u>14.23</u>	<u>13.42</u>	<u>8.00</u>	<u>5.02</u>	<u>0.98</u>
%	<u>0.0</u>	<u>0.4</u>	<u>16.4</u>	<u>28.5</u>	<u>26.7</u>	<u>16.0</u>	<u>10.0</u>	<u>2.0</u>

Drytime: 5.0 Static Flow: 0 / 10.6 Avg. Microns: 147.6

Color L: 100.45 a 0.17 b 1.78

Technician: DT. HDL

VAB.0001200850

CERTIFICATE OF ANALYSIS

Date: December 29, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44410

Ship Date: December 22, 1992

Order No.: 0019557-005

VISTA

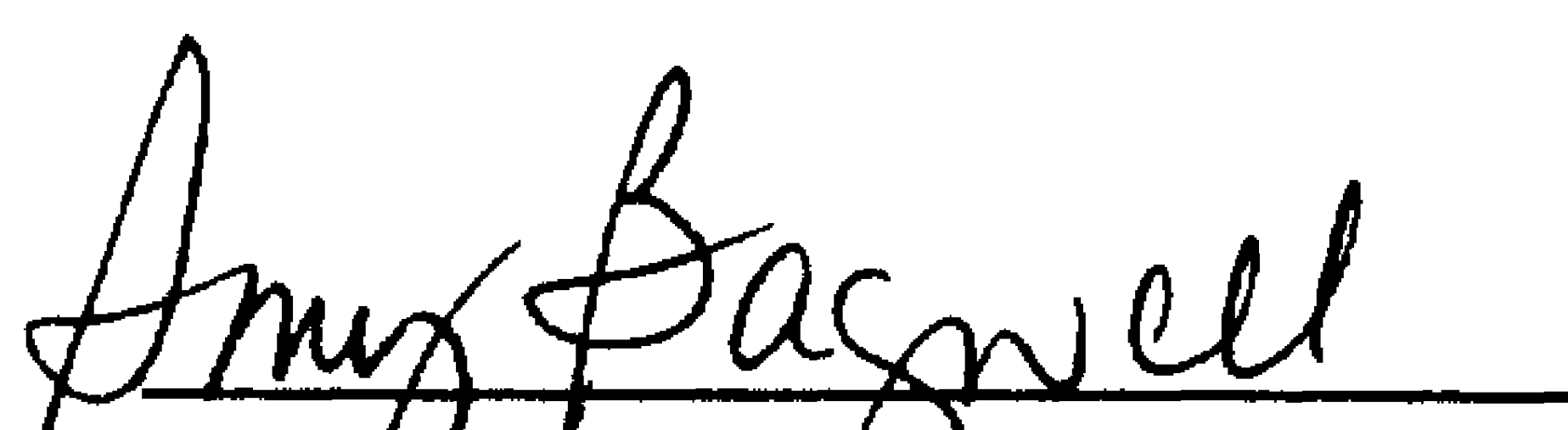
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.04
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.589
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.2
% on Pan		10.0 Max.	2.1
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.015
Inherent Viscosity	ABR-10	.90 to .95	0.94

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200851

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

PWSY

Load Date: 12-18-92Product: 5385Car No.: 44410Time Logged In: 2300Logged In By: MSSilo(s): 676, 677Ship Date: 12/22Order No: 0019557-005Customer: Bencorp

No metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.01		.02		.04	
Contamination	BL	5	3		4		3	
	BR	10	8		9		6	
Bulk Density	.575		.592		.592		.596	
BD after Fluff								
Hard Particle 5	12							
7	2							
Viscosity	.938							
RVCM	.015							
40 Mesh/Glassies		0		0	0			0

(Foreign)

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.0	0.97	12.27	14.18	11.93	6.46	3.66	1.06
%	0.0	1.9	24.5	28.4	23.0	12.9	7.2	2.1

Drytime: 14.8Static Flow: 0.17.5 Avg. Microns: 158.7Color L: 100.49 a 0.13 b 1.78Technician: MT + KH

VAB.0001200852

CERTIFICATE OF ANALYSIS

Date: December 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLWX 44368

Ship Date: December 30, 1992

Order No.: 0019963-004

VISTA

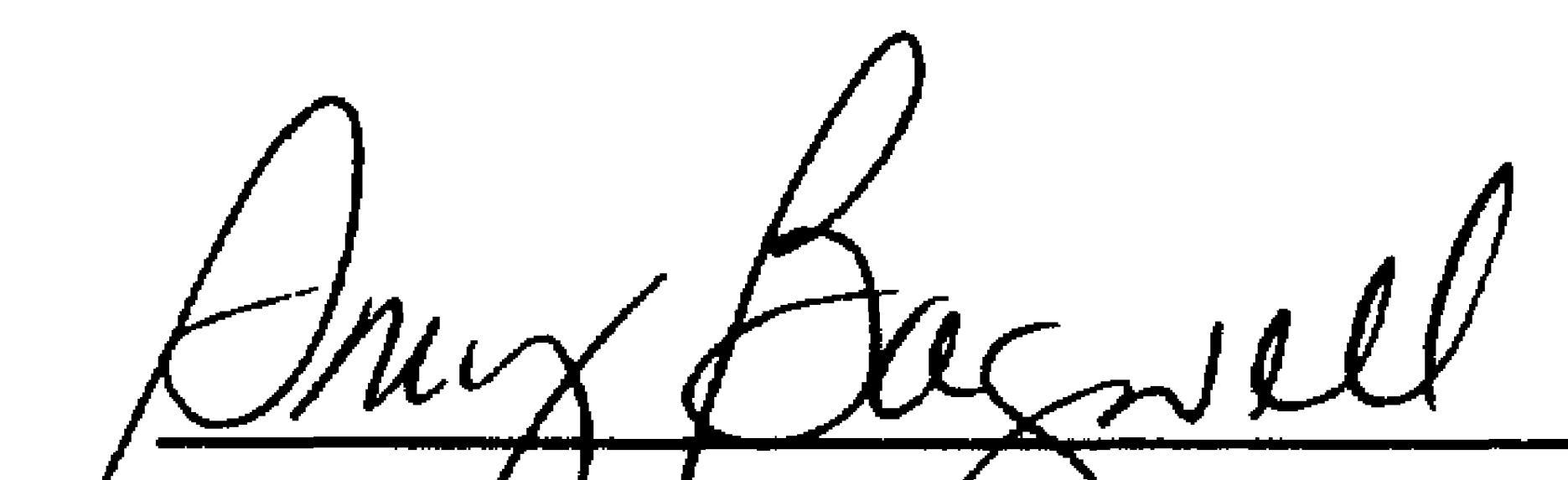
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.14
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.579
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.6
% on Pan		10.0 Max.	1.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.209
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200853

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 12-29-92Product: 5385Car No.: 44368Time Logged In: 1420Logged In By: MSSilo(s): 677, 678Ship Date: 12/30/92 Order No: 19963-004 Customer: Bencorp*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.11		.13		.12	
Contamination	BL							
	BR							
	3	—	4	—	2	—	4	—
	9		8		6		5	
Bulk Density	.580		.577		.579		.580	
BD after Fluff								
Hard Particle 5	14	—	—	—	—	—	—	—
7	2							
Viscosity	923							
RVCM	.209							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.15</u>	<u>9.60</u>	<u>15.51</u>	<u>12.82</u>	<u>6.75</u>	<u>3.80</u>	<u>.20</u>
%	<u>0.0</u>	<u>.3</u>	<u>19.2</u>	<u>31.0</u>	<u>27.0</u>	<u>13.5</u>	<u>7.6</u>	<u>1.4</u>

Drytime: 5.0 Static Flow: 0 / 7.9 Avg. Microns: 152.5Color L: 100.30 a .16 b 1.80Technician: M. H. V. E.

VAB.0001200854

CERTIFICATE OF ANALYSIS

Date: December 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: UTCX 46491

Ship Date: December 29, 1992

Order No.: 0019963-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.6
% on Pan		10.0 Max.	1.3
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.136
Inherent Viscosity	ABR-10	.90 to .95	0.92

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200855

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 12-28-92Product: 5385Car No.: 46491Time Logged In: 1845Logged In By: CoSilo(s): 677, 685Ship Date: 12/29 Order No: 19963-002 Customer: GenCorpno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.12		.14	
Contamination	BL <u>6</u>	—	9	—	8	—	3	—
	BR <u>10</u>		8		11		23	
Bulk Density	.578		.579		.570		.573	
BD after Fluff								
Hard Particle 5	<u>9</u>	—	—	—	—	—	—	—
7	<u>3 HDL</u>							
Viscosity	.922							
RVCM	.136							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.52</u>	<u>10.42</u>	<u>15.42</u>	<u>12.51</u>	<u>6.58</u>	<u>3.82</u>	<u>0.66</u>
%	<u>0.00</u>	<u>1.0</u>	<u>20.8</u>	<u>30.8</u>	<u>25.3</u>	<u>13.2</u>	<u>7.6</u>	<u>1.3</u>

Drytime: 4.8 Static Flow: 0.86 Avg. Microns: 155.2Color L: 100.26 a .13 b 1.67Technician: Co + DL

VAB.0001200856

CERTIFICATE OF ANALYSIS

Date: December 31, 1992

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: ACFX 41172

Ship Date: December 29, 1992

Order No.: 0019963-003

VISTA

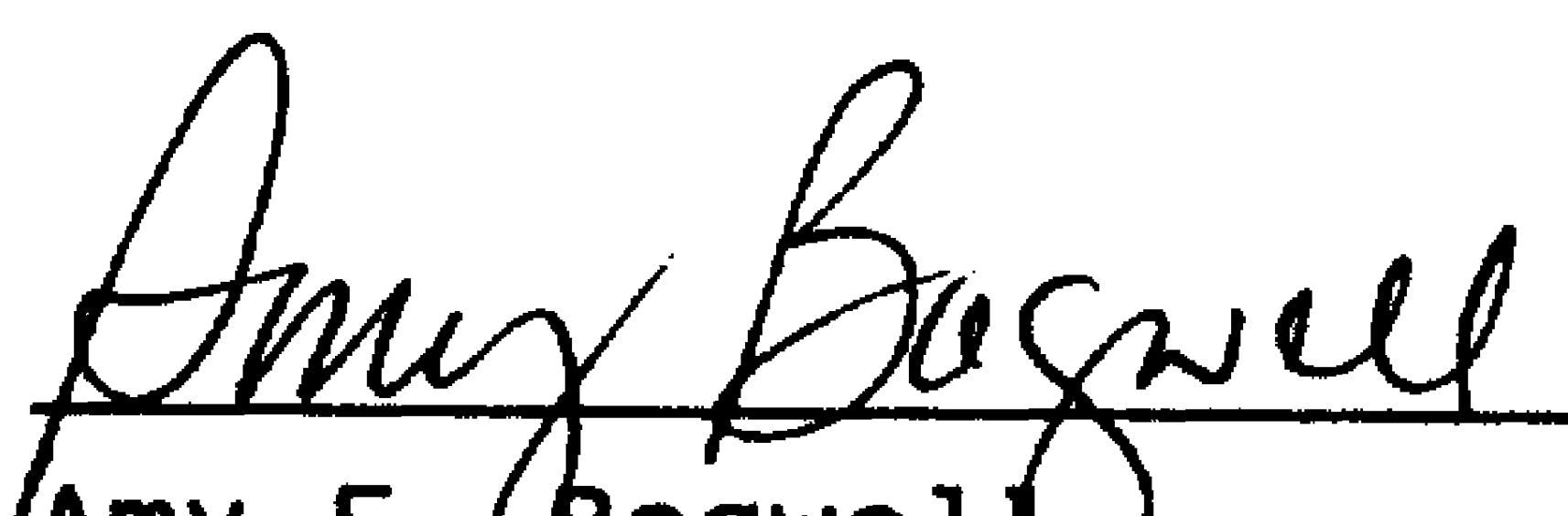
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.578
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	7.5
% on Pan		10.0 Max.	1.4
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	2
Vinly Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.054
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200857

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 12-29-92Product: 5385Car No.: 41172Time Logged In: D330Logged In By: COSilo(s): 676, 677Ship Date: 12/29 Order No: 19963-003 Customer: GenCorp

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.17		.15		.13		.11 .12	
Contamination	BL							
	BR							
	<u>8</u>	—	<u>9</u>	—	<u>6</u>	—	<u>8</u>	—
	<u>12</u>		<u>14</u>		<u>8</u>		<u>12</u>	
Bulk Density	.576		.580		.579		.578	
BD after Fluff								
Hard Particle 5	<u>18</u>	—	—	—	—	—	—	—
7	<u>2</u>							
Viscosity	.927							
RVCM	.054							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.47</u>	<u>10.75</u>	<u>15.40</u>	<u>12.17</u>	<u>6.51</u>	<u>3.76</u>	<u>.70</u>
%	<u>0.0</u>	<u>.9</u>	<u>21.5</u>	<u>30.8</u>	<u>24.9</u>	<u>13.0</u>	<u>7.5</u>	<u>1.4</u>

Drytime: 5.0Static Flow: 0.8.1 Avg. Microns: 155.6Color L: 100.62 a .17 b 1.77Technician: MHA MT

VAB.0001200858

CERTIFICATE OF ANALYSIS

Date: January 5, 1993

Customer: GENCORP POLYMER PRODUCTS
P. O. Box 191
Columbus, MS 39701

Product: 5385

Attention: Plant Chemist

Railcar No.: PLCX 47546

Ship Date: December 31, 1992

Order No.: 0019557-008

VISTA

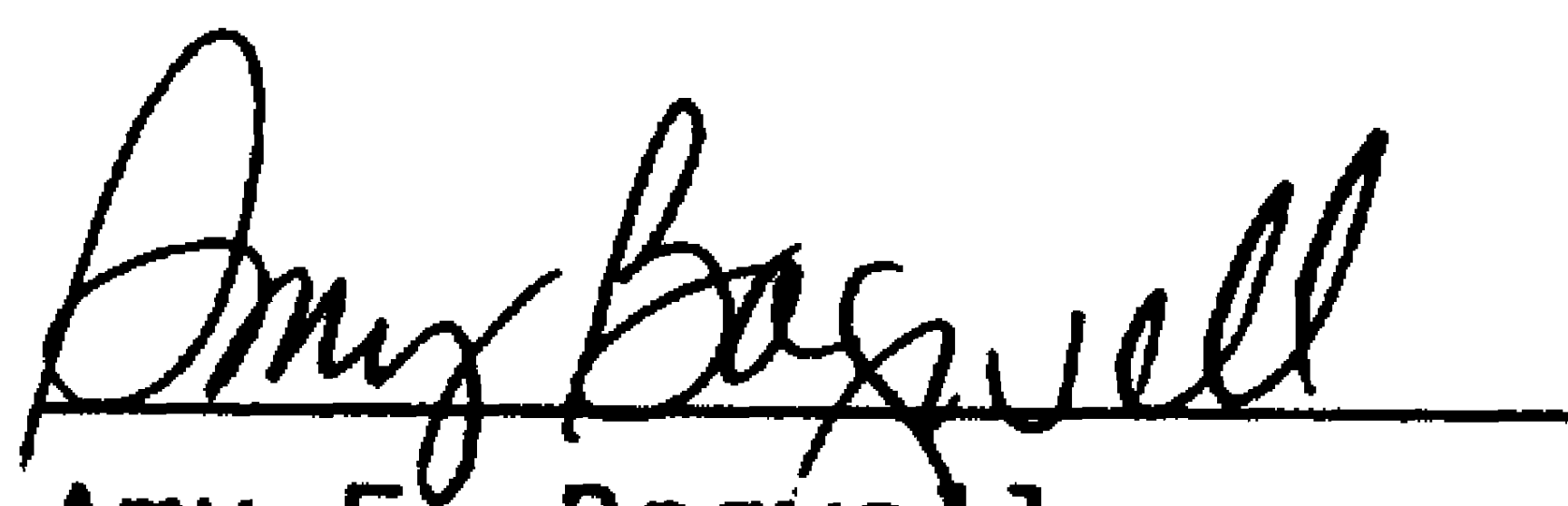
<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Volatiles, %	ABR-1A	0.30 Max.	0.17
Bulk Density, gm/cc	ABR-2A	.510 Min.	0.575
Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
Particle Size Distribution	ABR-3		
% on 40 Mesh		0.1 Max.	0.00
% on 200 Mesh		NDS	8.7
% on Pan		10.0 Max.	1.8
40 Mesh Glassies	ABR-6	5 Max. Avg.*	0

(By Compartment)
*Average of 5 per railcar;
10 max. in a single compartment.

A	CA	CB	B
0	0	0	0

Hard Particles @ 7 Mins.	ABR-12	25 Max.	3
Vinyl Chloride Monomer, ppm	ABGC-26	8.5 Max.	0.071
Inherent Viscosity	ABR-10	.90 to .95	0.93

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001200859

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

PLC4

Load Date: 12-30-92Product: 5385Car No.: 97546Time Logged In: 1500Logged In By: MSSilo(s): 676, 672, 625Ship Date: 12/31Order No: 0019557-008Customer: GenCorpNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.17		.15		.16	
Contamination	BL		12		2		3	
	BR		30		9		11	
Bulk Density	.573		.577		.572		.578	
BD after Fluff								
Hard Particle 5	25							
7	3							
Viscosity	.926							
RVCN	.071							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.56</u>	<u>9.33</u>	<u>14.56</u>	<u>12.77</u>	<u>7.40</u>	<u>4.33</u>	<u>.90</u>
%	<u>0.0</u>	<u>1.1</u>	<u>18.7</u>	<u>29.1</u>	<u>25.8</u>	<u>14.8</u>	<u>8.7</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0, 9.1Avg. Microns: 152.0Color L: 100.21 a 0.15 b 1.75Technician: BTES

VAB.0001200860

Gitto-Global A

CERTIFICATE OF ANALYSIS

FAX No. 508-534-8362

Date: 11/16/92

Customer: Gitto-Global Corporation
20 Mohawk Drive
Leominster, MA 01453

Product: 5305

VISTA

Attention: Joyce Barbieri

Order No.: 0018590-000

Ship Date: 11/14/92

Trailer No.: T-384

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>0.05</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>0.526</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>17.6</u>
% On Pan		5.0 Max.	<u>2.6</u>
*Specification is 30.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	8.5 Max.	<u>0.003</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>0.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

A

Date 11-13-92 Product 5305 Trailer Number T-384
 Customer Githo Silo 684 Time 2330-0015
 Technician D. + D. L. Order No. 0018590-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.05		1.8		1. -	1. 526	1. -	L = 99.97		
			12					A = 0.16		
	2.		2.		2.	2.	2.	B = 1.46		
MIDDLE	1.		1.		1.	1.	1.	L =	11.4	
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.07	2.36	5.92	17.20	14.33	8.78	1.30	
% on Mesh	0.0	0.1	4.7	11.8	39.5	28.7	17.6	2.6	

Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____