

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

Fax No. 601-286-9402

Date: January 4, 1993

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45782

Ship Date: December 30, 1992

Order No.: 0019847-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.055
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
12	12	10	9

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.2
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.578
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	19.5	30.9	26.8	13.7	7.5	1.3

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Amy Bagwell
Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

Type in Total
Cont. on
letter

VAB.0001201050

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 12-30-92Product: 5385Car No.: 45782Time Logged In: 0800Logged In By: MMSilo(s): 676, 677Ship Date: 12/30/92Order No: 0019847-003Customer: Intex*no mtd*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.15		.16		.13	
Contamination	BL							
	BR							
	<u>5</u>	—	<u>4</u>	—	<u>3</u>	—	<u>4</u>	—
	<u>7</u>		<u>8</u>		<u>7</u>		<u>5</u>	
Bulk Density	.577		.579		.580		.578	
BD after Fluff								
Hard Particle 5	<u>15</u>	—	—	—	—	—	—	—
7	<u>2</u>							
Viscosity	.929							
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>.13</u>	<u>9.75</u>	<u>15.44</u>	<u>12.85</u>	<u>6.84</u>	<u>3.75</u>	<u>.66</u>
%	<u>0.0</u>	<u>.3</u>	<u>19.5</u>	<u>30.9</u>	<u>26.8</u>	<u>13.7</u>	<u>7.5</u>	<u>1.3</u>

Drytime: 5.0Static Flow: 0 / 8.2Avg. Microns: 152.8Color L: 100.33 a .17 b 1.25Technician: MM + TE

VAB.0001201051

RAILCAR SHIPMENT ORDER TO DIVERT/RE-SHIP/RETURN

DATE:

1/14/93

RAILCAR NUMBER:

ACFX 41169

ORIGINAL SHIP DATE:

789,650

ORIGINAL ORIGIN PLANT:

ABD

ORIGINAL PRODUCT WEIGHT:

12/17

PRODUCT NAME & CODE:

5385,10790

ORIGINAL CUSTOMER:

IPC

ORIGINAL CUSTOMER LOCATION:

Corinth, MS

ORIGINAL ORDER NUMBER:

0019847-001

NEW CUSTOMER:

ABD

NEW LOCATION:

Aberdeen, MS

NEW ORDER NUMBER:

—

DO YOU NEED RAIL CAR WEIGHTS? (YES/NO)

No

REASON FOR CHANGE: (EG. OFF-SPEC, ETC.)

off spec

CAR RELEASED (YES/NO):

Y

BILLING INSTRUCTIONS MUST BE COMMUNICATED TO RAIL FREIGHT & CONTRACTS
FOR ISSUING BILL OF LADING ON OR BEFORE THE DAY THE CAR IS RELEASED.

OTHER COMMENTS:

CUSTOMER SERVICE REPRESENTATIVE:

Cole

(28) RC 41169 5385 A	1941
	926
(29) CA	2017
	780
(30) CB	2006
	902
(31) B	2009
	913
(32) RC 45791 5385 A	2007
	915
(33) CA	2008
	684
(34) CB	2013
	857
(35) B	2018
	695
(36) 5640200 - 5395	2001
	919

Continued on Page _____

Read and Understood By _____

VAB.0001201053

Signed _____

Date _____

Signed _____

Date _____

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 18, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41169

Ship Date: December 17, 1992

Order No.: 0019847-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.104
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
15	19	16	27

Hard Particles ● 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.579
Moisture, %	ABR-1A	0.30 Max.	0.12
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

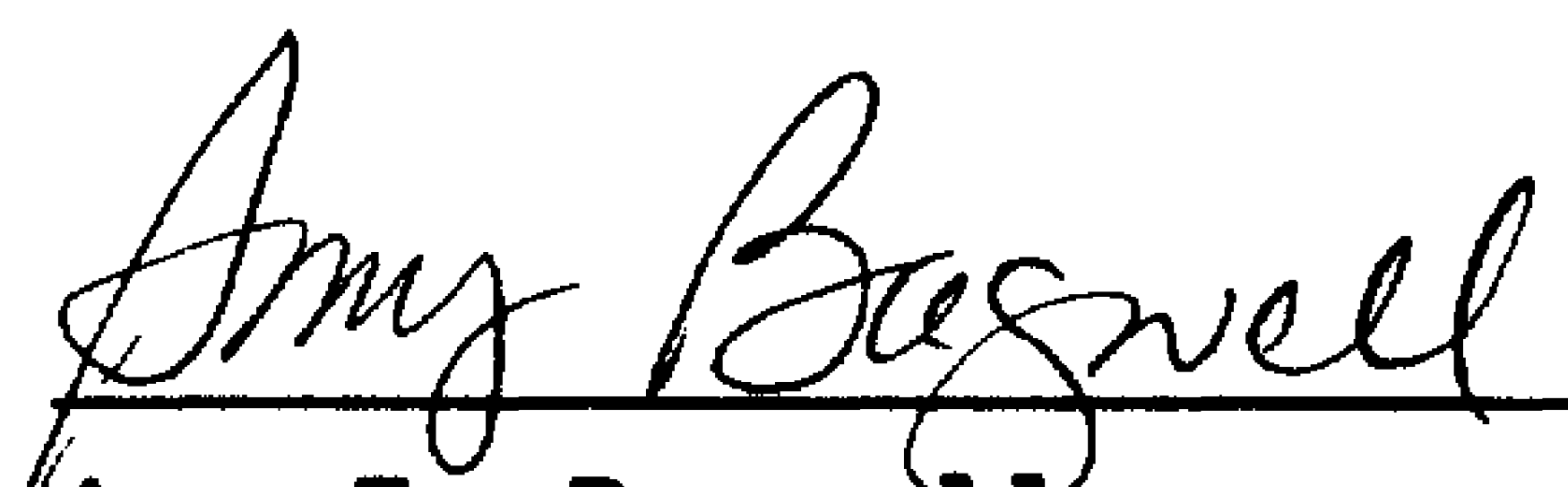
MESH

% ON

40	60	80	100	120	140	200	PAN
0.0	1.5	27.0	28.0	21.5	12.4	7.3	2.3

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201054

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 10-6-92Product: 5385Car No.: 41169Time Logged In: 1500Logged In By: M.A.Silo(s): 676, 677, 685

Ship Date: _____

Order No: _____

Customer: Gencorp

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.09		.10		.11		.12	
Contamination	BL	11	9		9		18	
	BR	7	10		7		9	
Bulk Density	.570		.577		.575		.575	
BD after Fluff								
Hard Particle 5	18							
7	3							
Viscosity	.800	.660		.921		.922		.925
RVCM	.054							
40 Mesh/Glassies	0		0		0		1	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.77</u>	<u>13.52</u>	<u>13.99</u>	<u>10.74</u>	<u>6.20</u>	<u>3.66</u>	<u>1.13</u>
%	<u>0.0</u>	<u>1.5</u>	<u>27.0</u>	<u>28.0</u>	<u>21.5</u>	<u>12.4</u>	<u>7.3</u>	<u>2.3</u>

Drytime: 5.0Static Flow: 0 / 8.0Avg. Microns: 159.6Color L: 100.60 a .20 b 2.00Technician: MATE

VAB.0001201055

Vista Polymers

Highway 25

Aberdeen, MS 39730

off load
PVC RAILCAR ANALYSIS

ACFX

Load Date: 12-16-92Product: 5385Car No.: 41169

Time Logged In: _____

Logged In By: M.TSilo(s): 685Ship Date: 12/17/92Order No: 0019847-001Customer: Intex (IPC)*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03							
Contamination	BL							
	BR							
Bulk Density	.587							
BD after Fluff								
Hard Particle 5	13							
7	2 RH							
Viscosity	.927							
RVCM	.104							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.53</u>	<u>8.84</u>	<u>13.43</u>	<u>12.66</u>	<u>7.83</u>	<u>5.56</u>	<u>1.30</u>
%	<u>0.0</u>	<u>1.1</u>	<u>17.7</u>	<u>26.9</u>	<u>24.9</u>	<u>15.7</u>	<u>11.1</u>	<u>2.6</u>

Drytime: 4.9Static Flow: 0 / 8.1Avg. Microns: 148.5Color L: 100.33 a 0.17 b 1.71Technician: M.T

VAB.0001201056

A

DATE:

4/14/93

RAILCAR NUMBER:

VIPX45791

ORIGINAL SHIP DATE:

12/28

ORIGINAL ORIGIN PLANT:

ABD

ORIGINAL PRODUCT WEIGHT:

188,500

PRODUCT NAME & CODE:

5385,10790

ORIGINAL CUSTOMER:

IPC

ORIGINAL CUSTOMER LOCATION:

Corinth, MS

ORIGINAL ORDER NUMBER:

0019847-002

NEW CUSTOMER:

ABP

NEW LOCATION:

Aberdeen, MS

NEW ORDER NUMBER:

DO YOU NEED RAILCAR RE-WEIGHED? (YES/NO)

No

REASON FOR CHANGE: (EG. OFF-SPEC, ETC.)

off spec

CAR RELEASED (YES/NO):

Y

BILLING INSTRUCTIONS MUST BE COMMUNICATED TO RAIL FREIGHT & CONTRACTS
FOR ISSUING BILL OF LADING ON OR BEFORE THE DAY THE CAR IS RELEASED.

OTHER COMMENTS:

CUSTOMER SERVICE REPRESENTATIVE:

CNC

TRIBUTION: PLANT, HOUSTON - RAIL FREIGHT & CONTRACTS, HOUSTON - RAIL OPERATIONS

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 29, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45791

Ship Date: December 28, 1992

Order No.: 0019847-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.043
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
15	16	17	18

Hard Particles @ 7 Mins.	ABR-12	15 Max.	5
Dry Flow, Seconds	ABR-8	15 Max.	8.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.585
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.5	20.5	31.0	25.1	13.4	7.1	1.4

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.1
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201058

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 12-27-92 Product: 5385 Car No.: 45791
 Time Logged In: 1815 Logged In By: ES Silo(s): 677, 676
 Ship Date: 12/28 Order No: 0019847-002 Customer: INTEX (IPC)

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.15		.07		.09	
Contamination	BL	8	9	6	9			
	BR	7	7	11	9			
Bulk Density	.586		.585		.584		.584	
BD after Fluff								
Hard Particle 5/7	9/5 HBL							
Viscosity	.931							
RVCM	.043							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.75</u>	<u>10.25</u>	<u>15.51</u>	<u>12.66</u>	<u>6.69</u>	<u>3.57</u>	<u>0.71</u>
%	<u>0.00</u>	<u>1.5</u>	<u>20.5</u>	<u>31.0</u>	<u>25.1</u>	<u>13.4</u>	<u>7.1</u>	<u>1.4</u>

Drytime: 5.1 Static Flow: 0, 8.4 Avg. Microns: 156.1

Color L: 100.81 a 0.13 b 1.72

Technician: HAZ/MT

VAB.0001201059

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 29, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: VIPX 45910

Attention: Quality Control Dept.

Order No.: 0019845-001

Ship Date: December 28, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.023
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
10	9	8	5

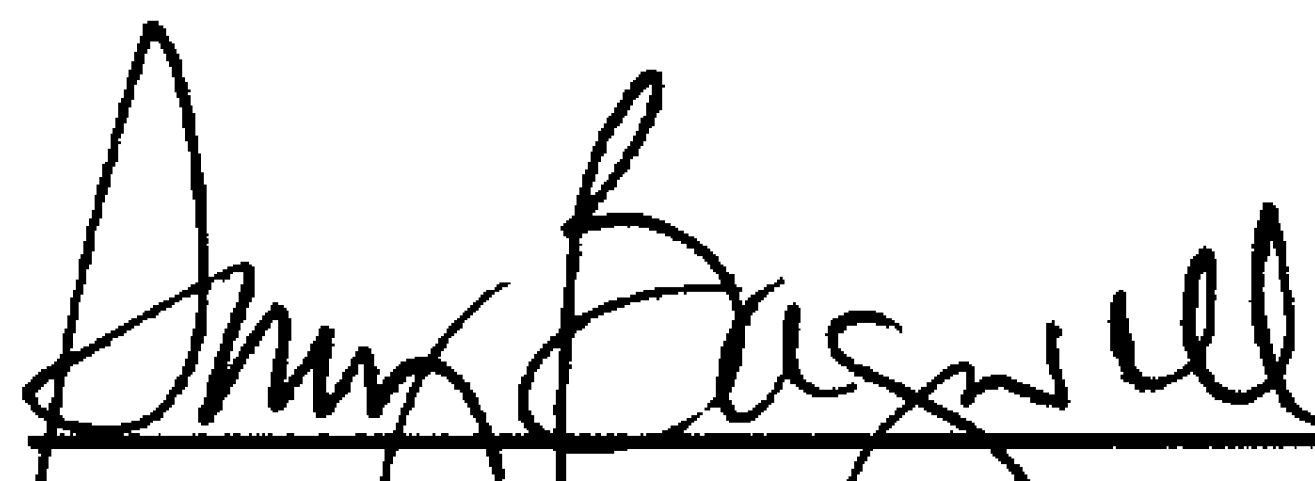
Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.8
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.506
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	28.5	34.2	21.3	8.2	5.8	1.7

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 5.0


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 12-26-92Product: 5415Car No.: 45910 ^{✓IPC}Time Logged In: 0700Logged In By: MASilo(s): 690, 691Ship Date: 12/28Order No: 0019845-001Customer: Intex (IPC)

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.15		.12		.12		.13	
Contamination	BL	<u>4</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>4</u>
	BR	<u>6</u>	<u>5</u>	<u>6</u>	<u>4</u>	<u>5</u>	<u>3</u>	<u>5</u>
Bulk Density	.509		.507		.506		.503	
Hard Particle	5	<u>4</u>	—	—	—	—	—	—
	7	<u>1</u>	—	—	—	—	—	—
Viscosity	1.023							
RVCM	.023							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.16</u>	<u>14.26</u>	<u>17.10</u>	<u>10.20</u>	<u>4.10</u>	<u>2.88</u>	<u>.85</u>
%	<u>0.0</u>	<u>.3</u>	<u>28.5</u>	<u>34.2</u>	<u>21.3</u>	<u>8.2</u>	<u>5.8</u>	<u>1.7</u>

Drytime: 5.0Static Flow: 0 / 8.8Avg. Microns: 162.2Color L: 100.72 a .15 b 1.41METS: 10333 / 130.5 %Technician: MA

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 18, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: VIPX 45804

Ship Date: December 17, 1992

Order No.: 0019846-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.79
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.262
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

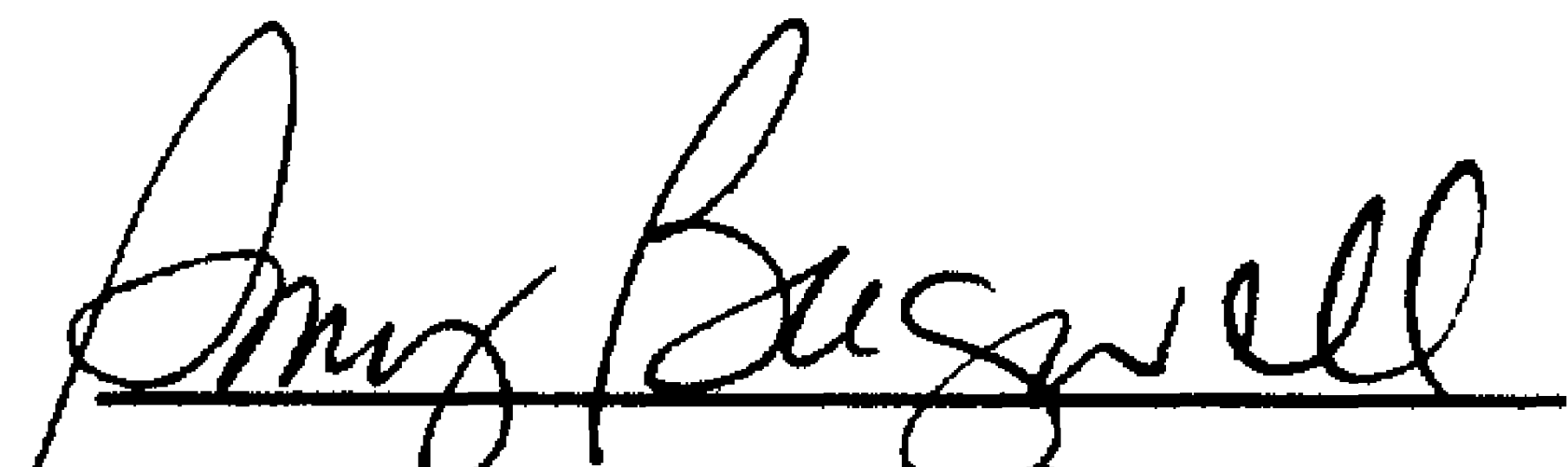
A	CA	CB	B
11	10	11	11

Dry Flow, Seconds	ABR-8	15 Sec. Max.	11.2
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.498
Moisture, %	ABR-1A	0.30 Max.	0.14
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.3	8.9	19.0	34.3	25.5	10.7	1.3

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VISTA

PVC RAILCAR ANALYSIS

Load Date: 11-17-92Product: 5325Car No.: 45804Time Logged In: 1500Logged In By: MSSilo(s): 685Ship Date: 12/17Order No: 19846-000Customer: Intex*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.10		.13		.14		.14	
Contamination	BL							
	BR							
	$\frac{2}{8}$	—	$\frac{3}{7}$	—	$\frac{5}{6}$	—	$\frac{2}{9}$	—
Bulk Density	.491		.468		.468		.468	
BD w/antistat								
Viscosity	.793		.796		.793		.797	
RVCM	.071		.006		.262		.106	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.13</u>	<u>4.43</u>	<u>9.50</u>	<u>16.94</u>	<u>12.74</u>	<u>5.34</u>	<u>.66</u>
%	<u>0.0</u>	<u>.3</u>	<u>8.9</u>	<u>19.0</u>	<u>34.3</u>	<u>25.5</u>	<u>10.7</u>	<u>1.3</u>

CPA: 26.8% Glassies: < 1%Avg. Microns: 197.0Color L: 99.99 a .21 b 1.33Static Flow: 0 / 17.2Technician: GP

$$HP \frac{5}{7} = 19/4 Co$$

Resample
PVC RAILCAR ANALYSIS

Load Date: 12-3-92Product: 5325Car No.: 45804Time Logged In: 11:30Logged In By: M.T Silo(s): _____

Ship Date: _____ Order No: _____ Customer: _____

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture								
Contamination	BL BR	____	____	____	____	____	____	____
Bulk Density			<u>.499</u>		<u>.501</u>		<u>.500</u>	
BD w/antistat								
Viscosity								
BVCM Flow			<u>9/10.9</u>		<u>9/11.2</u>		<u>9/10.4</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	_____	_____	_____	_____	_____	_____	_____	_____
%	_____	_____	_____	_____	_____	_____	_____	_____

CPA: _____ % Glassies: _____ Avg. Microns: _____

Color L: _____ a _____ b _____ Static Flow: ____/____

Technician: _____



CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 17, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45714

Ship Date: December 16, 1992

Order No.: 0019847-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.195
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
10	8	11	11

Hard Particles @ 7 Mins.	ABR-12	15 Max.	7
Dry Flow, Seconds	ABR-8	15 Max.	7.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.586
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

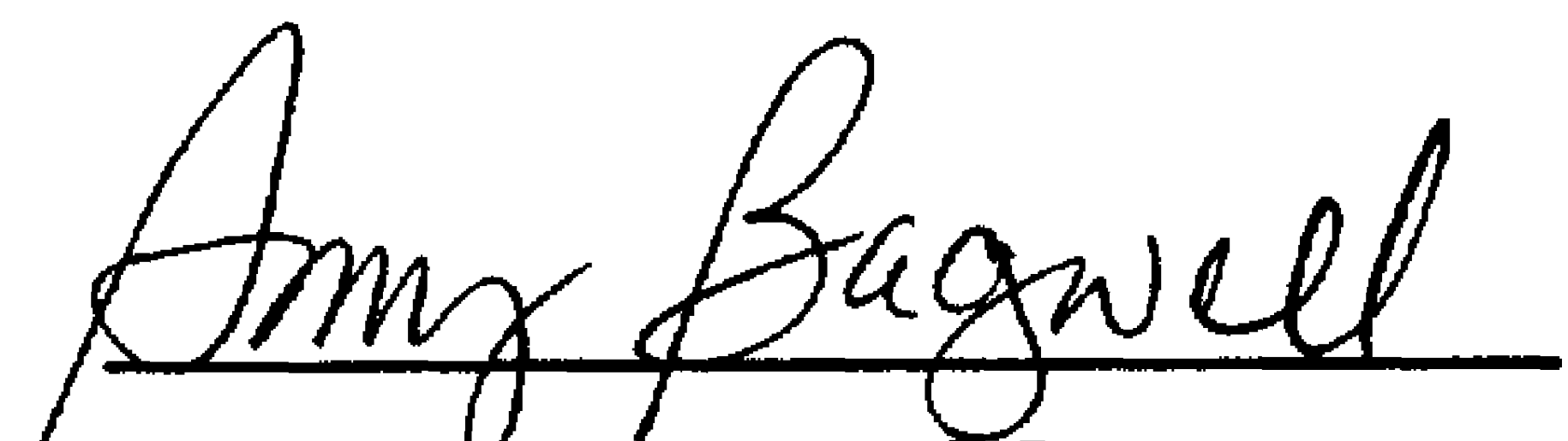
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.0	20.0	29.5	25.5	13.9	8.0	2.1

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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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: 12-14-92Product: 5385Car No.: 45714Time Logged In: 0130Logged In By: DTSilo(s): 685Ship Date: 12/16 Order No: 19847-000 Customer: Wtey (IPC)no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.16</u>		<u>.12</u>		<u>.15</u>		<u>.14</u>	
Contamination	BL							
	BR	<u>2</u>	<u>3</u>	<u>2</u>	<u>4</u>			
		<u>8</u>	<u>5</u>	<u>9</u>	<u>7</u>			
Bulk Density	<u>.581</u>		<u>.577</u>		<u>.597</u>		<u>.591</u>	
BD after Fluff								
Hard Particle 5	<u>13</u>							
7	<u>7</u>							
Viscosity	<u>.925</u>							
RVCM	<u>.195</u>							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.52</u>	<u>9.98</u>	<u>14.75</u>	<u>12.72</u>	<u>6.96</u>	<u>3.99</u>	<u>1.06</u>
%	<u>0.0</u>	<u>10.</u>	<u>20.0</u>	<u>29.5</u>	<u>25.5</u>	<u>13.9</u>	<u>8.0</u>	<u>2.1</u>

Drytime: 5.0 Static Flow: 0 / 7.0 Avg. Microns: 153.1Color L: 100.33 a .09 b 1.78Technician: B + ES

VAB.0001201066

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
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Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 18, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: UTCX 46550

Attention: Quality Control Dept.

Order No.: 0019845-000

Ship Date: December 16, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.192
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
10	13	9	9

Hard Particles @ 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.505
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	1.5	41.1	27.8	14.4	8.4	5.0	1.8

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



Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201067

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PVC RAILCAR ANALYSIS

UTCH

Load Date: 12-14-92Product: 5415Car No.: 46550Time Logged In: 0130Logged In By: P.T.Silo(s): 690+691Ship Date: 12/16Order No: 0019845000Customer: ~~Southern~~ / InterEsop

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.15		.16		.11	
Contamination	BL	<u>4</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>2</u>	<u>4</u>	<u>3</u>
	BR	<u>6</u>	<u>7</u>	<u>8</u>	<u>5</u>	<u>7</u>	<u>5</u>	<u>7</u>
Bulk Density	.505		.503		.504		.507	
Hard Particle	5	<u>9</u>	—	—	—	—	—	—
	7	<u>2</u>	—	—	—	—	—	—
Viscosity	1.021							
RVCM	.192							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.75</u>	<u>20.55</u>	<u>13.90</u>	<u>7.90</u>	<u>4.20</u>	<u>2.50</u>	<u>.90</u>
%	<u>0.0</u>	<u>1.5</u>	<u>41.1</u>	<u>27.8</u>	<u>14.4</u>	<u>8.4</u>	<u>5.0</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0 / 8.2Avg. Microns: 172.8Color L: 100.21 a .23 b 1.15METS: 10303, 127.8 %Technician: MLH

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CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 18, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41152

Order No.: 0019844-000

Ship Date: December 15, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.061
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
9	9	8	5

Hard Particles @ 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.505
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.0	40.4	28.5	15.7	6.9	4.8	1.7

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 5.0


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A

PVC RAILCAR ANALYSIS

ACFX

Load Date: 12-14-92Product: 5415Car No.: 91152Time Logged In: 0130Logged In By: D.T.Silo(s): 690+691Ship Date: 12/15/92 Order No: 0019844-000 Customer: Intep

no metal

no tops on CB + B - But I had 2 A's

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.11		.13		.15		.10	
Contamination	BL	<u>4</u>	<u>2</u>	<u>4</u>	<u>2</u>	<u>4</u>	<u>2</u>	
	BR	<u>5</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>4</u>	<u>3</u>	
Bulk Density	.504		.500		.505		.512	
Hard Particle	5	<u>8</u>						
	7	<u>2</u>						
Viscosity	1.025							
RVCM	.061							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.00</u>	<u>20.22</u>	<u>14.24</u>	<u>7.54</u>	<u>3.46</u>	<u>2.38</u>	<u>.83</u>
%	<u>0.0</u>	<u>2.0</u>	<u>40.4</u>	<u>28.5</u>	<u>15.7</u>	<u>6.9</u>	<u>4.8</u>	<u>1.7</u>

Drytime: 5.0 Static Flow: 0 / 8.1 Avg. Microns: 174.0Color L: 100.67 a .08 b 1.48METS: 10145, 125.5 %Technician: MS

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: December 2, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: UTCX 46512

Attention: Quality Control Dept.

Order No.: 0018812-001

Ship Date: November 30, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.061
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

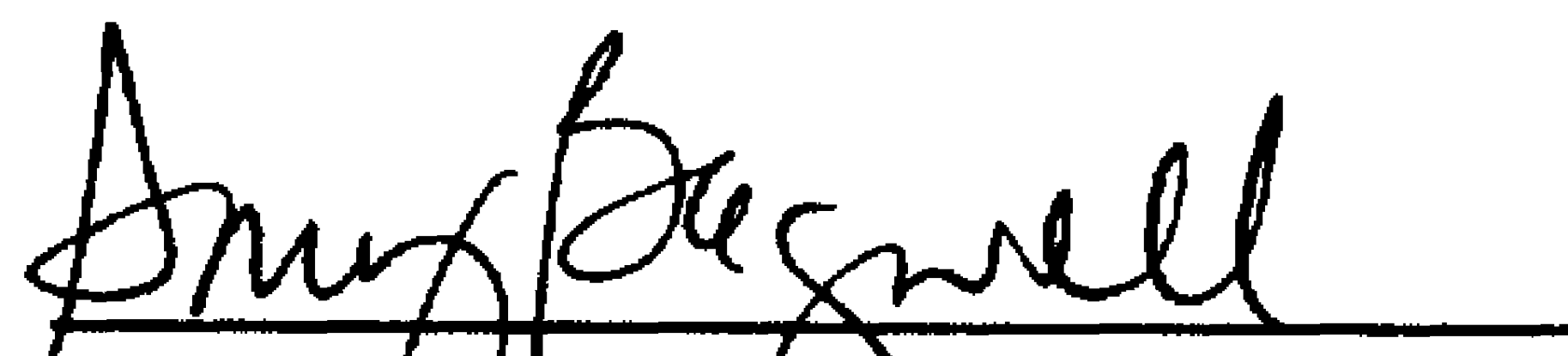
A	CA	CB	B
8	4	7	4

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.4
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.486
Moisture, %	ABR-1A	0.30 Max.	0.14
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.1	39.9	29.2	15.3	6.7	4.3	1.5

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


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A

PVC RAILCAR ANALYSIS

Load Date: 11-28-92Product: 5415Car No.: 46512 ^{UTC4}Time Logged In: 0630Logged In By: ESSilo(s): 690 + 691Ship Date: 11/30/92 Order No: 0018812-001 Customer: ~~Inter~~ Interno metal

Compartment	A		CA		CB		B		
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	
Moisture %	.11		.13		.12		.14		
Contamination	BL	$\frac{2}{6}$	$\frac{3}{9}$	$\frac{2}{2}$	$\frac{4}{7}$	$\frac{3}{4}$	$\frac{6}{5}$	$\frac{2}{2}$	$\frac{5}{4}$
	BR								
Bulk Density	486		482		492		485		
Hard Particle	5	$\frac{2}{1}$	—	—	—	—	—	—	
	7								
Viscosity	1.026								
RVCM	.061								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.55</u>	<u>19.96</u>	<u>14.58</u>	<u>7.70</u>	<u>3.33</u>	<u>2.14</u>	<u>.76</u>
%	<u>0.0</u>	<u>3.1</u>	<u>39.9</u>	<u>29.2</u>	<u>15.3</u>	<u>6.7</u>	<u>4.3</u>	<u>1.5</u>

Drytime: 4.8 Static Flow: 0 19.4 Avg. Microns: 176.5Color L: 100.70 a: .06 b: 1.39METS: 10145 / 128.1 %Technician: CO

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CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 25, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41160

Ship Date: November 24, 1992

Order No.: 0018450-004

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.264
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
11	10	9	8

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.586
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

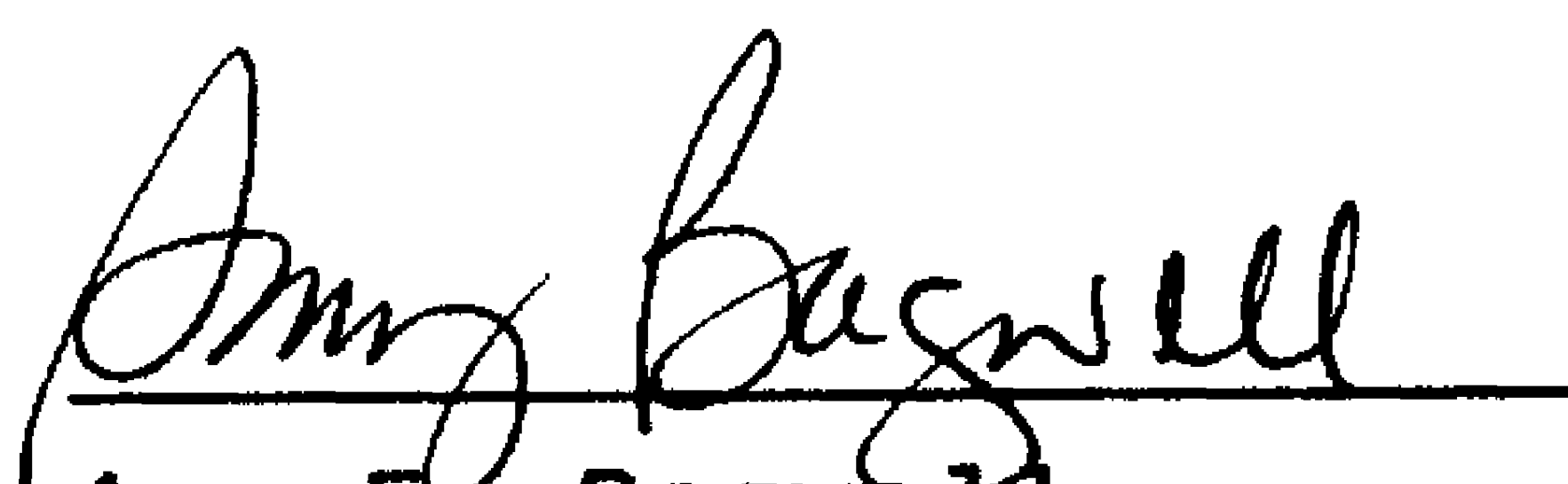
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.6	20.8	32.9	24.3	11.8	7.6	2.0

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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VAB.0001201073

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-23-92Product: 5385Car No.: 41160Time Logged In: 1230Logged In By: D.toSilo(s): 685674677Ship Date: 11/24Order No: 18450-064Customer: Intex*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.09		.10	
Contamination	BL	3	4		2		4	
	BR	8	6		7		4	
Bulk Density	.580		.590		.585		.588	
BD after Fluff								
Hard Particle 5	19							
7	2							
Viscosity	.923							
RVCM	.264							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.29</u>	<u>10.42</u>	<u>16.45</u>	<u>12.06</u>	<u>5.91</u>	<u>3.80</u>	<u>1.01</u>
%	<u>0.0</u>	<u>.6</u>	<u>20.8</u>	<u>32.9</u>	<u>24.3</u>	<u>11.8</u>	<u>7.6</u>	<u>2.0</u>

Drytime: 5.0Static Flow: 0 / 8.0Avg. Microns: 154.6Color L: 100.55 a .06 b 1.55Technician: MJ

VAB.0001201074

CERTIFICATE OF ANALYSIS

Date: November 24, 1992

Fax No. 601-286-9402

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: UTCX 46396

Ship Date: November 23, 1992

Order No.: 0018452-001

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.80
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.751
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

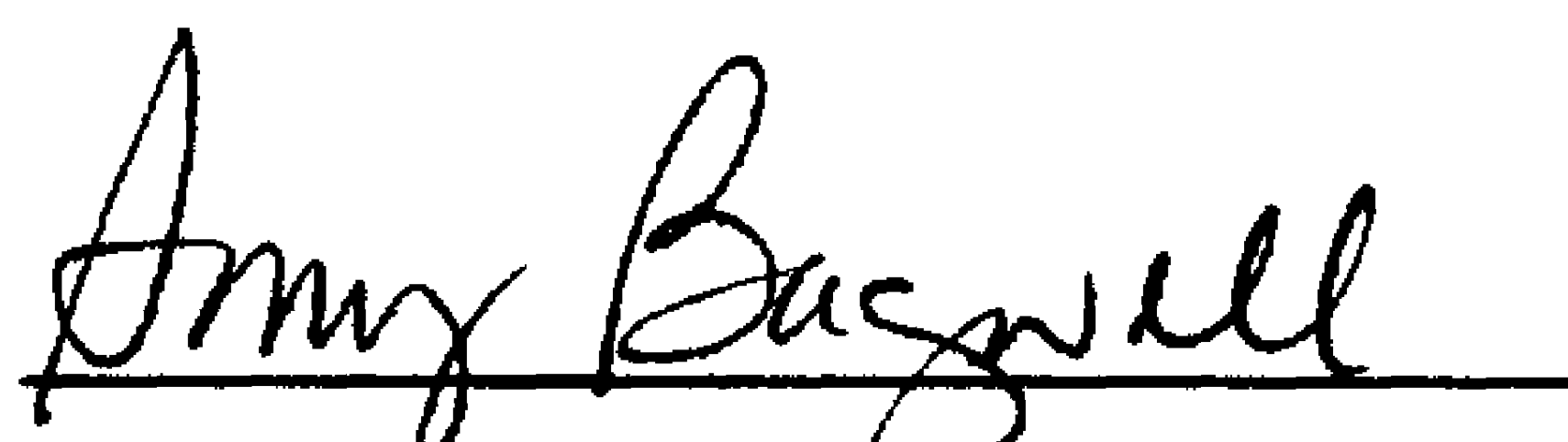
A	CA	CB	B
9	12	14	11

Dry Flow, Seconds	ABR-8	15 Sec. Max.	11.1
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.508
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.6	8.9	19.4	34.2	25.1	10.6	1.2

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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Vista Polymers

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PVC RAILCAR ANALYSIS

Load Date: 11-Kp-92 Product: 5325 Car No.: 46396
 Time Logged In: 0400 Logged In By: D.T. Silo(s): 685
 Ship Date: 11/23 Order No: 18452-001 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.14		.15		.16		.11	
Contamination	BL		4		5		4	
	BR		8		9		7	
Bulk Density	.489		.516		.515		.513	
BD w/antistat								
Viscosity	.802		.800		.796		.800	
RVCM	.026		.148		.751		.110	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.30</u>	<u>4.44</u>	<u>9.70</u>	<u>16.87</u>	<u>12.57</u>	<u>5.31</u>	<u>.62</u>
%	<u>0.0</u>	<u>.6</u>	<u>8.9</u>	<u>19.4</u>	<u>34.2</u>	<u>25.1</u>	<u>10.6</u>	<u>1.2</u>

CPA: 26.5 % Glassies: <170 Avg. Microns: 1384

Color L: 99.83 a .17 b 1.59 Static Flow: 0 / 11.1

Technician: MATE

$$HP \frac{5}{7} = \frac{12}{3}$$

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 24, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 47522

Ship Date: November 23, 1992

Order No.: 0018449-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.014
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

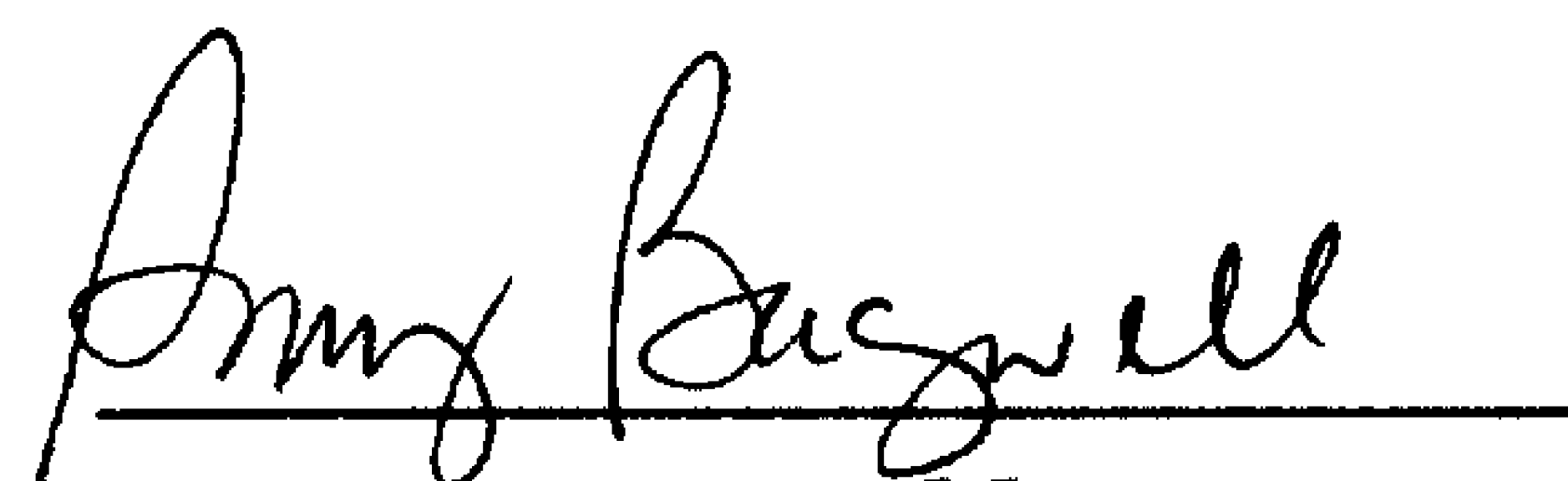
A	CA	CB	B
14	15	18	15

Hard Particles ● 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.0
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.507
Moisture, %	ABR-1A	0.30 Max.	0.18
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	5.8	43.5	23.6	13.7	7.7	4.2	1.5

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



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PVC RAILCAR ANALYSIS

Load Date: 11-21-92Product: 5415Car No.: 47522Time Logged In: 1230Logged In By: D.T.Silo(s): 690 + 691Ship Date: 11/23Order No: 18449-002Customer: Essex IntepBlane

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.15		.11		.10		.18	
Contamination	BL	<u>5</u>	<u>5</u>	<u>4</u>	<u>6</u>	<u>5</u>	<u>6</u>	<u>8</u>
	BR	<u>9</u>	<u>7</u>	<u>11</u>	<u>7</u>	<u>12</u>	<u>6</u>	<u>9</u>
Bulk Density	.507		.508		.510		.505	
Hard Particle	5	<u>2</u>	—	—	—	—	—	—
	7	<u>1</u>	—	—	—	—	—	—
Viscosity	1.027							
RVCM	.014							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.91</u>	<u>21.75</u>	<u>11.80</u>	<u>6.62</u>	<u>3.85</u>	<u>2.10</u>	<u>.75</u>
%	<u>0.0</u>	<u>5.8</u>	<u>43.5</u>	<u>23.6</u>	<u>13.7</u>	<u>7.7</u>	<u>4.2</u>	<u>1.5</u>

Drytime: 5.0Static Flow: 0 / 8.0Avg. Microns: 182.9Color L: 100.72 a -05 b 1.36METS: 10528 / 133.0 %Technician: MS

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 25, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73383

Ship Date: November 23, 1992

Order No.: 0018450-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.101
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
15	15	15	11

Hard Particles • 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	8.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.14
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	3.8	26.5	24.4	23.4	12.4	7.7	1.8

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.7
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Amy Bagwell

Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201079

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-21-92Product: 5385Car No.: 73383Time Logged In: 1230Logged In By: DT.Silo(s): 676, 677, 685Ship Date: 11/23Order No: 18450-003Customer: Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.14		.06		.11	
Contamination	BL		3		4		6	
	BR	10	12		11		5	
Bulk Density	.593		.596		.593		.558	
BD after Fluff								
Hard Particle 5	20							
7	3							
Viscosity	.926							
RVCM	.101							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.88</u>	<u>13.23</u>	<u>12.19</u>	<u>11.37</u>	<u>6.21</u>	<u>3.86</u>	<u>0.89</u>
%	<u>0.0</u>	<u>3.8</u>	<u>26.5</u>	<u>24.4</u>	<u>23.4</u>	<u>12.4</u>	<u>7.7</u>	<u>1.8</u>

Drytime: 4.7Static Flow: 0.18.0Avg. Microns: 163.1Color L: 100.28 a 0.07 b 1.90

VAB.0001201080

Technician: MIT + KH

CERTIFICATE OF ANALYSIS

Date: November 23, 1992

Fax No. 601-286-9402

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41178

Ship Date: November 20, 1992

Order No.: 0018812-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.021
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
10	8	9	16

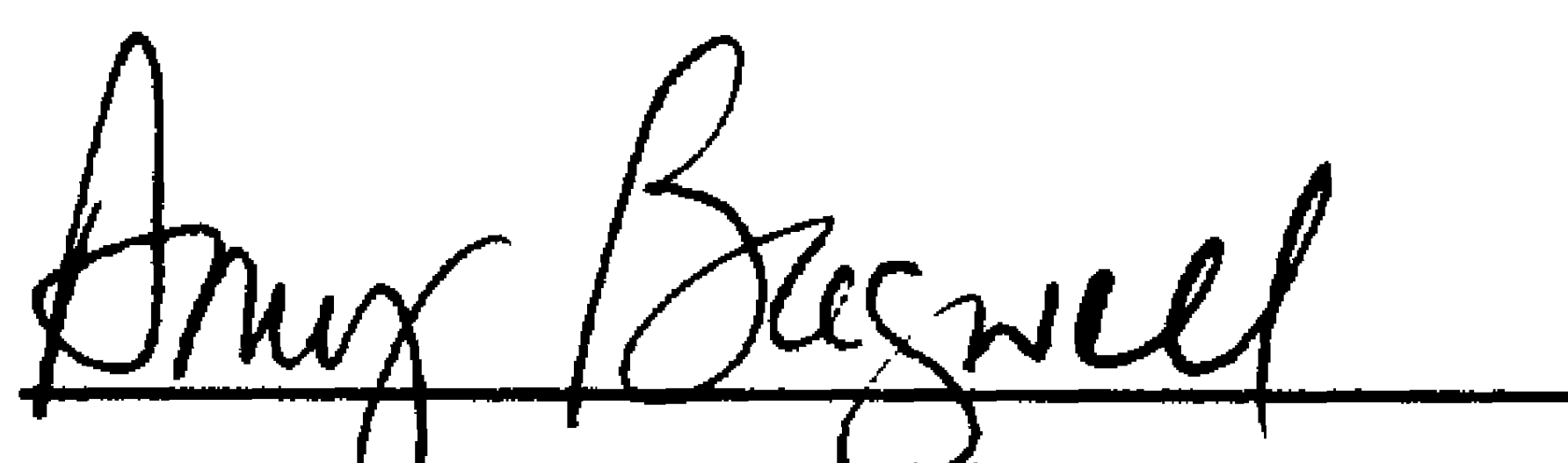
Hard Particles ● 7 mins.	ABR-12	5 Max.	3
Dry Flow, Seconds	ABR-8	15 Sec. Max.	11.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.510
Moisture, %	ABR-1A	0.30 Max.	0.18
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.2	42.0	24.2	18.3	6.8	4.1	1.4

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 5.0



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

Load Date: 11-13-92 Product: 5415 Car No.: 41178
 Time Logged In: 1630 Logged In By: C Silo(s): 690
 Ship Date: 11/20 Order No: 18812-000 Customer: Intex

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	<u>.12</u>		<u>.18</u>		<u>.18</u>		<u>.17</u>	
Contamination	BL <u>4</u>	<u>8</u>	<u>5</u>	<u>4</u>	<u>4</u>	<u>6</u>	<u>9</u>	<u>4</u>
	BR <u>6</u>	<u>7</u>	<u>3</u>	<u>6</u>	<u>5</u>	<u>8</u>	<u>7</u>	<u>10</u>
Bulk Density	<u>.504</u>		<u>.513</u>		<u>.506</u>		<u>.516</u>	
Hard Particle	<u>12</u> <u>30</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Viscosity	<u>1.028</u>							
RVCM	<u>.021</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.58</u>	<u>21.02</u>	<u>12.08</u>	<u>9.12</u>	<u>3.42</u>	<u>2.05</u>	<u>0.72</u>
%	<u>0.0</u>	<u>3.2</u>	<u>42.0</u>	<u>24.2</u>	<u>18.3</u>	<u>6.8</u>	<u>4.1</u>	<u>1.4</u>

Drytime: 5.0 Static Flow: 0 112 Avg. Microns: 177.1

Color L: 100.77 a -0.05 b 1.38

METS: 10333 127.8 %

Technician: D.T. + D.L.

CERTIFICATE OF ANALYSIS

Date: November 23, 1992

Fax No. 601-286-9402

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45760

Ship Date: November 20, 1992

Order No.: 0018450-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.133
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
14	13	12	15

Hard Particles @ 7 Mins.	ABR-12	15 Max.	6
Dry Flow, Seconds	ABR-8	15 Max.	11.5
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.575
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

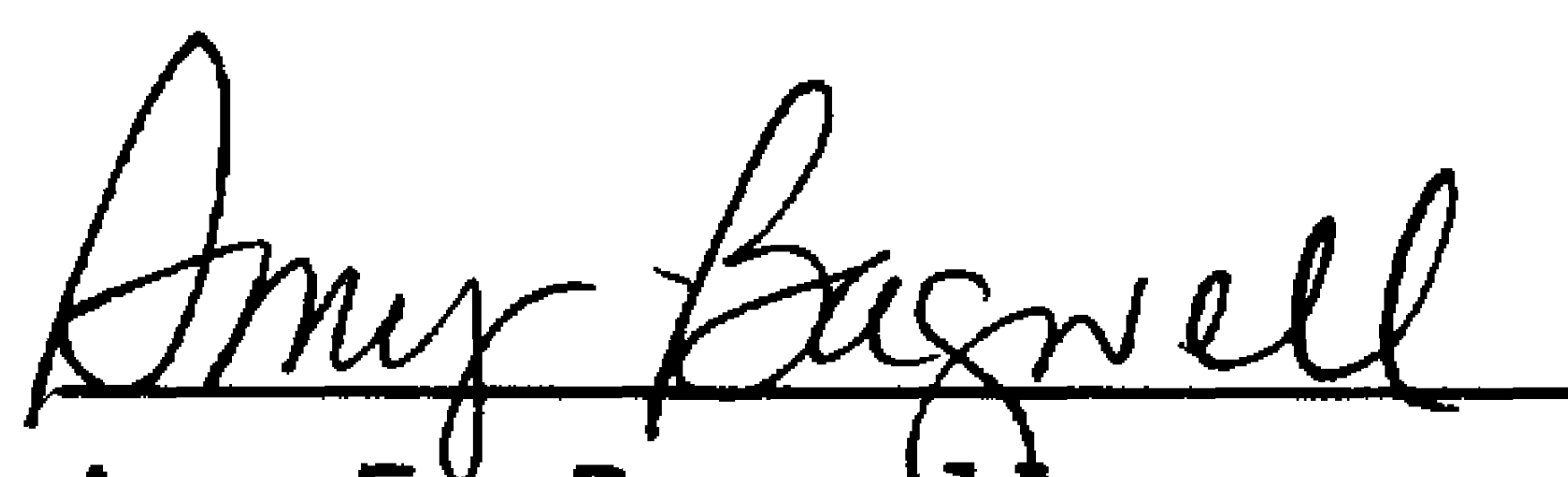
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	5.4	18.8	35.8	22.3	14.9	2.5

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201083

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-13-92Product: 5385Car No.: 45760Time Logged In: 0030Logged In By: D.T.Silo(s): 676, 677Ship Date: 11/20Order No: 0018450-002Customer: Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.15		.15		.13	
Contamination	BL	2	3	4	6			
	BR	12	10	8	9			
Bulk Density	.575		.575		.576		.523	
BD after Fluff								
Hard Particle 5	8							
7	6							
Viscosity	.927							
RVCM	.133							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.14</u>	<u>2.70</u>	<u>941</u>	<u>17.90</u>	<u>11.14</u>	<u>7.45</u>	<u>1.25</u>
%	<u>0.0</u>	<u>.3</u>	<u>5.4</u>	<u>18.8</u>	<u>35.8</u>	<u>22.3</u>	<u>14.9</u>	<u>2.5</u>

Drytime: 4.9Static Flow: 0, 11.5 Avg. Microns: 132.2Color L: 100.39 a .11 b 1.80Technician: G

VAB.0001201084

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 23, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: PLWX 44449

Ship Date: November 18, 1992

Order No.: 0018449-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	1.007
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
14	11	11	12

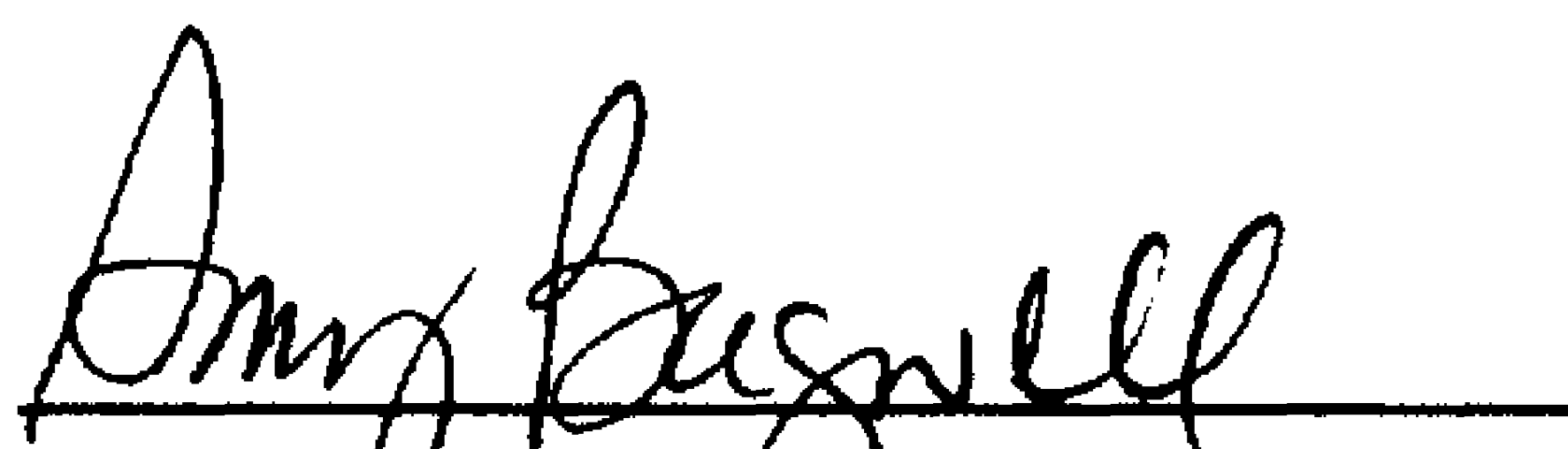
Hard Particles ● 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.504
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	1.9	33.9	31.8	18.7	7.8	4.3	1.6

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 4.9


Amy E. Bagwell
Laboratory Supervisor

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Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-18-92Product: 5415Car No.: 44449Time Logged In: 0715Logged In By: MASilo(s): 690, 691Ship Date: 11/18/92Order No: 0018449-001Customer: Essex Intex
Blane

no mtd

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.11		.13		.15		.16	
Contamination	BL							
	BR							
	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>5</u>	<u>2</u>	<u>4</u>	<u>2</u>
Bulk Density	<u>9</u>	<u>6</u>	<u>8</u>	<u>9</u>	<u>6</u>	<u>9</u>	<u>8</u>	<u>9</u>
	.506		.502		.505		.502	
Hard Particle	5							
	7							
	<u>4</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
	<u>2</u>							
Viscosity	1.030							
RVCM	1.007							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.95</u>	<u>16.93</u>	<u>15.92</u>	<u>9.45</u>	<u>3.20</u>	<u>2.17</u>	<u>.80</u>
%	<u>0.0</u>	<u>1.9</u>	<u>33.9</u>	<u>31.8</u>	<u>18.7</u>	<u>7.8</u>	<u>4.3</u>	<u>1.6</u>

Drytime: 4.9Static Flow: 0 / 8.2 Avg. Microns: 169.8Color L: 100.86 a -0.06 b 1.35METS: 10333 127.8 %Technician: MA TE

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 20, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5325

Attention: Quality Control Dept.

Railcar No.: VIPX 45251

Ship Date: November 18, 1992

Order No.: 0018452-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.80
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.172
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

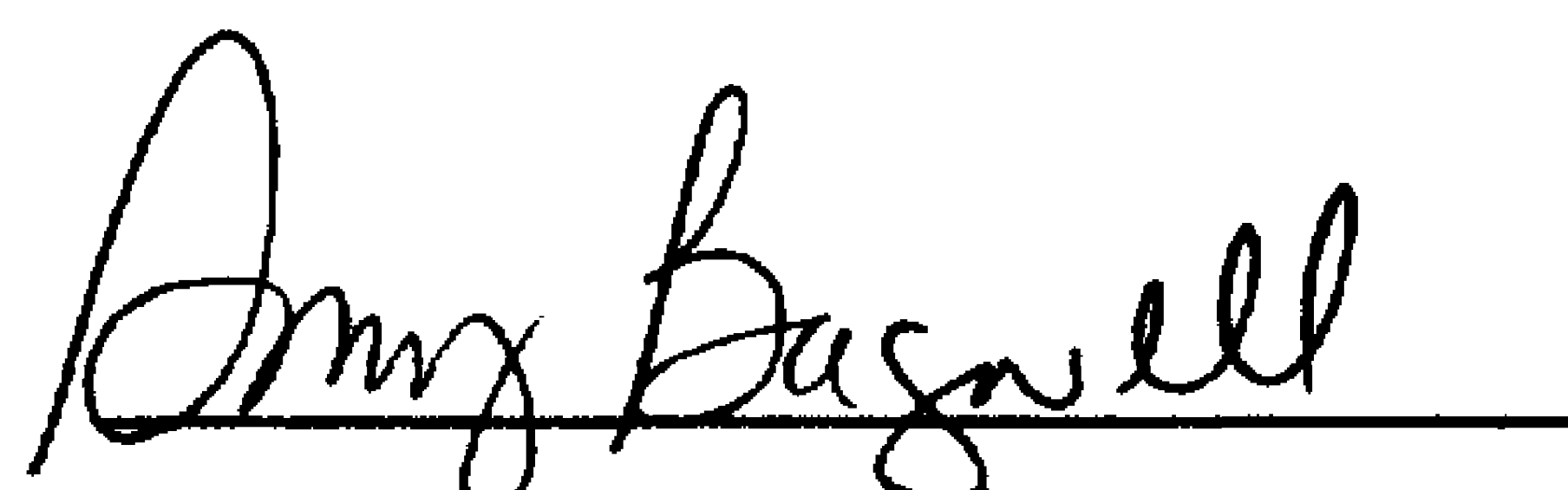
A	CA	CB	B
14	12	15	13

Dry Flow, Seconds	ABR-8	15 Sec. Max.	12.7
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.493
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.3	6.1	16.6	34.1	27.7	14.4	0.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

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Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-17-92Product: 5385Car No.: 73398Time Logged In: 1500Logged In By: MYSilo(s): 676Ship Date: 11/17/92Order No: 0018462-002Customer: Abco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.18		.14		.13	
Contamination	BL		6		3		4	
	BR		8		7		5	
Bulk Density	.586		.588		.580		.582	
BD after Fluff	.579		.579		.572		.574	
Hard Particle 5/7	—	—	—	—	—	—	—	—
Viscosity	.918							
RVCM	.043							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.62</u>	<u>9.50</u>	<u>14.29</u>	<u>13.39</u>	<u>7.55</u>	<u>4.10</u>	<u>.80</u>
%	<u>0.0</u>	<u>1.2</u>	<u>19.0</u>	<u>28.6</u>	<u>26.3</u>	<u>15.1</u>	<u>8.2</u>	<u>1.6</u>

Drytime: —Static Flow: 0 / 8.2Avg. Microns: —Color L: 100.26 a .05 b 1.77Technician: MY

VAB.0001201088

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 17, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PLWX 44276

Ship Date: November 13, 1992

Order No.: 0018450-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
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Residual VCM, ppm	ABGC-26	8.5 Max.	0.586
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Contamination, BLK + BRN	ABR-5A	40 Total	
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Total Black + Brown

A	CA	CB	B
14	15	21	32

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
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Dry Flow, Seconds	ABR-8	15 Max.	7.9
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Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.579
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Moisture, %	ABR-1A	0.30 Max.	0.10
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Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	
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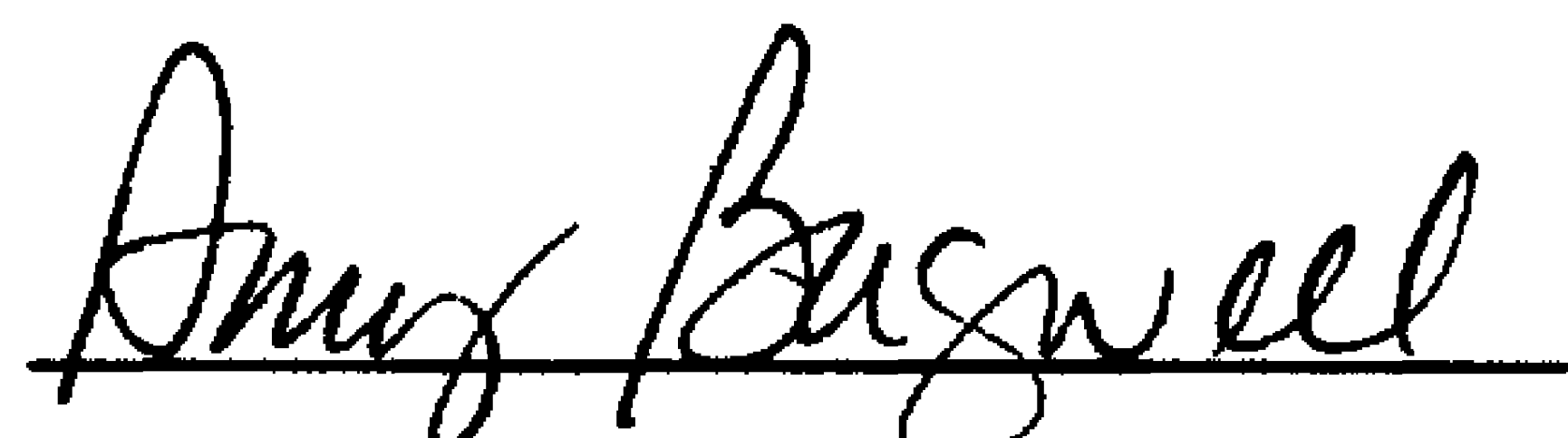
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.9	17.9	25.5	28.4	16.1	9.1	2.1

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201089

Viata Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-8-92Product: 5385Car No.: 44276Time Logged In: 0550Logged In By: COSilo(s): 676, 677, 685Ship Date: 11/13/92Order No: 0018450000Customer: Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.03		.05		.10	
Contamination	BL							
	BR							
	<u>4</u>	—	<u>3</u>	—	<u>5</u>	—	<u>8</u>	—
	<u>10</u>		<u>12</u>		<u>16</u>		<u>24</u>	
Bulk Density	.523		.575		.579		.590	
BD after Fluff								
Hard Particle	5							
	7							
	<u>18</u>	—	—	—	—	—	—	—
	<u>2</u>							
Viscosity	.940							
RVCM	.586							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.46</u>	<u>8.93</u>	<u>12.75</u>	<u>13.93</u>	<u>8.06</u>	<u>4.53</u>	<u>1.05</u>
%	<u>0.0</u>	<u>.9</u>	<u>17.9</u>	<u>25.5</u>	<u>28.4</u>	<u>16.1</u>	<u>9.1</u>	<u>2.1</u>

Drytime: 4.8 Static Flow: 0.7.9 Avg. Microns: 149.3Color L: 100.19 a -0.02 b 1.87Technician: M.T. & R.H.

VAB.0001201090

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 17, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45873

Ship Date: November 16, 1992

Order No.: 0018450-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
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Residual VCM, ppm	ABGC-26	8.5 Max.	0.097
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Contamination, BLK + BRN	ABR-5A	40 Total	
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Total Black + Brown

A	CA	CB	B
19	17	21	14

Hard Particles @ 7 Mins.	ABR-12	15 Max.	4
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Dry Flow, Seconds	ABR-8	15 Max.	9.5
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Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.584
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Moisture, %	ABR-1A	0.30 Max.	0.17
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Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	
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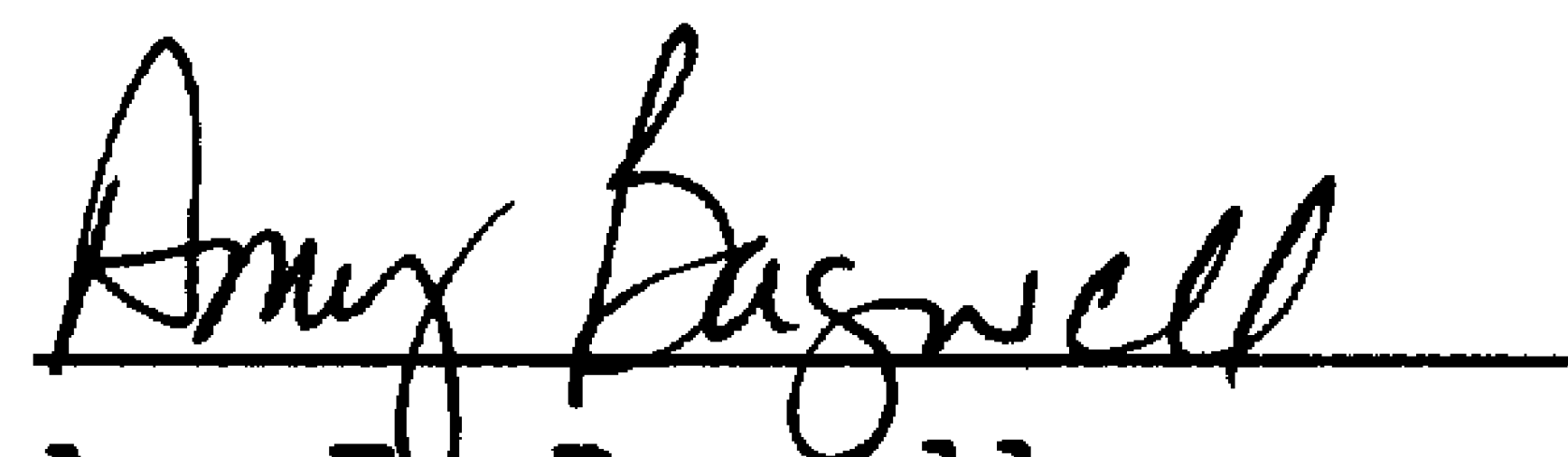
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.5	10.8	12.2	40.5	19.5	13.9	2.6

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201091

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

VIP4

Load Date: 11-15-92Product: 5385Car No.: 45873Time Logged In: 1230Logged In By: GSilo(s): 677Ship Date: 11/16Order No: 0018450-001Customer: Intex

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.15		.17		.15	
Contamination	BL		8		10		7	
	BR		9		11		7	
Bulk Density	.584		.584		.583		.584	
BD after Fluff								
Hard Particle 5	26							
	7							
Viscosity	.926							
RVCM	.097							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.26</u>	<u>5.40</u>	<u>6.12</u>	<u>19.93</u>	<u>9.76</u>	<u>6.93</u>	<u>1.31</u>
%	<u>0.0</u>	<u>0.5</u>	<u>10.8</u>	<u>12.2</u>	<u>40.5</u>	<u>19.5</u>	<u>13.9</u>	<u>2.6</u>

Drytime: 5.0Static Flow: 0 / 9.5Avg. Microns: 136.1Color L: 100.50 a .06 b 1.72Technician: D.T.+HPL

VAB.0001201092

CERTIFICATE OF ANALYSIS

Date: November 17, 1992

Fax No. 601-286-9402

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: VIPX 45844

Ship Date: November 16, 1992

Order No.: 0018177-002

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.80
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.474
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

A	CA	CB	B
10	10	10	9

Dry Flow, Seconds	ABR-8	15 Sec. Max.	13.8
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.495
Moisture, %	ABR-1A	0.30 Max.	0.24
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.1	5.0	12.9	29.0	30.7	20.4	1.9

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

Vista Polymers

Highway 25

Aberdeen, MS 39730

105

PVC RAILCAR ANALYSIS

Load Date: 11-14-92Product: 5325Car No.: 45844Time Logged In: 0230Logged In By: D.B.Silo(s): 685Ship Date: 11/16Order No: 18177-002Customer: IntuyNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.24		.19		.14		.24	
Contamination	BL							
	BR							
	$\frac{3}{7}$	—	$\frac{4}{6}$	—	$\frac{2}{8}$	—	$\frac{3}{6}$	—
Bulk Density	.488		.494		.483		.513	
BD w/antistat								
Viscosity	.804		.805		.801		.805	
RVCM	.268		.167		.099		.474	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.06</u>	<u>2.48</u>	<u>6.46</u>	<u>14.37</u>	<u>15.34</u>	<u>10.21</u>	<u>.94</u>
%	<u>0.0</u>	<u>.1</u>	<u>5.0</u>	<u>12.9</u>	<u>29.0</u>	<u>30.7</u>	<u>20.4</u>	<u>1.9</u>

CPA: 26.0 % Glassies: < 1% Avg. Microns: 126.2Color L: 99.89 a 0.21 b 1.80 Static Flow: 0 / 13.8Technician: Po + EdHARD PART. 50/6

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 13, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 47624

Ship Date: November 11, 1992

Order No.: 0018449-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.098
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
14	11	11	11

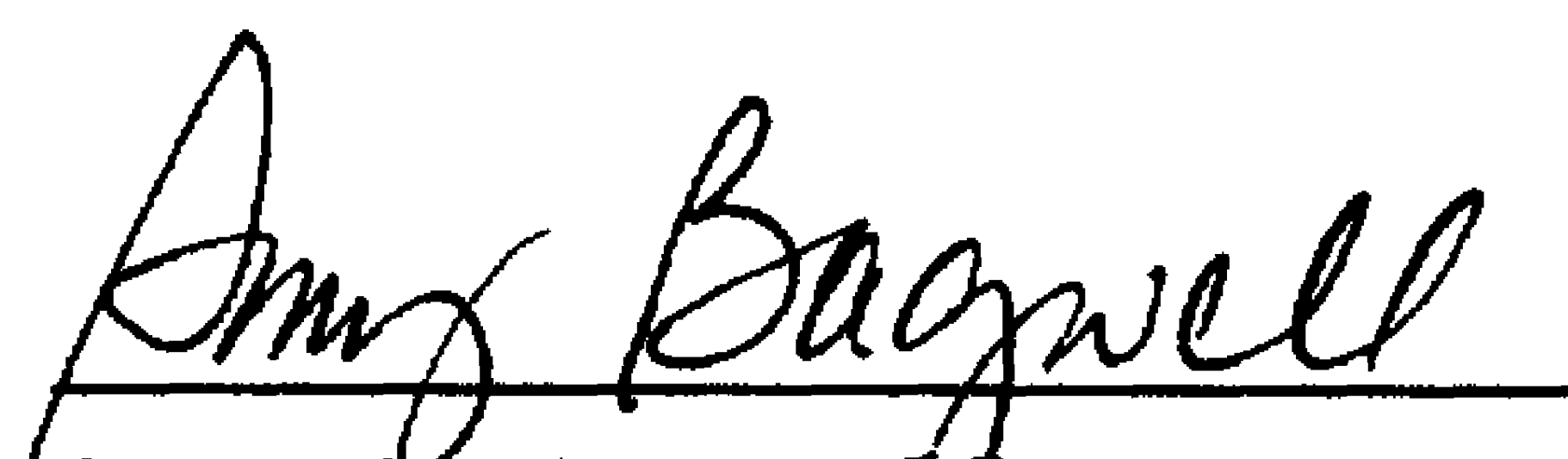
Hard Particles ● 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	11.5
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.507
Moisture, %	ABR-1A	0.30 Max.	0.18
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.2	16.0	31.0	26.9	15.2	8.3	2.4

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 4.9



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

Load Date: 11-7-92Product: 5415Car No.: PLC4 47624Time Logged In: 1100Logged In By: M.TSilo(s): 690-691Ship Date: 11/11/92Order No: 0018449-000Customer: IntexNO META!

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.17		.16		.17		.18	
Contamination BL	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>2</u>
BR	<u>9</u>	<u>6</u>	<u>8</u>	<u>9</u>	<u>7</u>	<u>8</u>	<u>7</u>	<u>9</u>
Bulk Density	.506		.508		.508		.506	
Hard Particle 5	<u>3</u>	—	—	—	—	—	—	—
7	<u>1</u>	—	—	—	—	—	—	—
Viscosity	1.032							
RVCM	.098							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>200</u>	<u>0.10</u>	<u>2.98</u>	<u>15.48</u>	<u>13.64</u>	<u>7.59</u>	<u>4.15</u>	<u>1.21</u>
%	<u>20</u>	<u>0.2</u>	<u>16.0</u>	<u>31.0</u>	<u>26.9</u>	<u>15.2</u>	<u>8.3</u>	<u>2.4</u>

Drytime: 4.9Static Flow: 0, 11.5Avg. Microns: 148.1Color L: 100.85 a 1.12 b 1.30METS: 10730, 139.5%Technician: GATE

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 11, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73389

Ship Date: November 6, 1992

Order No.: 0017372-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.465
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
11	14	14	12

Hard Particles ● 7 Mins.	ABR-12	15 Max.	4
Dry Flow, Seconds	ABR-8	15 Max.	8.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.580
Moisture, %	ABR-1A	0.30 Max.	0.07
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.5	13.4	25.7	28.8	17.8	11.3	2.5

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.7
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201097

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 11-6-92Product: 5385Car No.: 73389Time Logged In: 0930Logged In By: M.T.Silo(s): 685Ship Date: 11/6/92Order No: 72-005Customer: Intex*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.03		.05		.07	
Contamination	BL	<u>4</u>	—	<u>5</u>	—	<u>3</u>	—	<u>4</u>
	BR	<u>7</u>	—	<u>9</u>	—	<u>11</u>	—	<u>8</u>
Bulk Density	<u>.584</u>		<u>.584</u>		<u>.589</u>		<u>.561</u>	
BD after Fluff								
Hard Particle	5	<u>10</u>	—	—	—	—	—	—
	7	<u>4</u>	—	—	—	—	—	—
Viscosity	<u>.929</u>							
RVCM	<u>.465</u>							
40 Mesh/Glassies	<u>Flakes</u>		<u>Flakes</u>		<u>Flakes</u>		<u>Flakes</u>	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.24</u>	<u>6.71</u>	<u>12.83</u>	<u>14.55</u>	<u>8.89</u>	<u>5.66</u>	<u>1.26</u>
% P	<u>0.0</u>	<u>.5</u>	<u>13.4</u>	<u>25.7</u>	<u>28.8</u>	<u>17.8</u>	<u>11.3</u>	<u>2.5</u>

Drytime: 4.7Static Flow: 0 / 8.0Avg. Microns: 1433Color L: 100.31 a -0.05 b 1.67Technician: M.T. & R.H.

VAB.0001201098

CERTIFICATE OF ANALYSIS

Date: November 10, 1992

Fax No. 601-286-9402

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: UTCX 46414

Ship Date: November 9, 1992

Order No.: 0018177-001

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.81
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.130
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

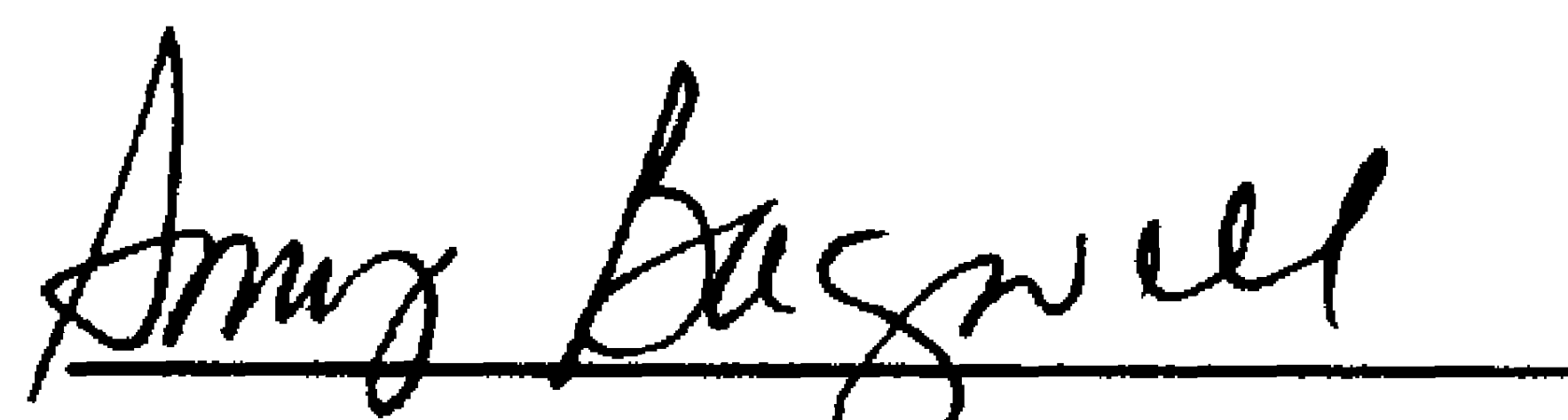
A	CA	CB	B
11	8	11	11

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.5
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.500
Moisture, %	ABR-1A	0.30 Max.	0.22
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.2	8.2	21.4	34.2	22.9	10.6	2.5

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

UTC4

Load Date: 10-14-92Product: 5325Car No.: 46414Time Logged In: 1530Logged In By: JoeSilo(s): 685Ship Date: 11/9/92Order No: 0018177-001Customer: Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.19		.21		.21		.22	
Contamination	BL							
	BR							
	4	—	3	—	2	—	3	—
	7		5		9		8	
Bulk Density	.495		.500		.498		.505	
BD w/antistat								
Viscosity	.818		.808		.807		.807	
RVCM	.001		.130		.001		.001	

Screen Analysis

H.P. $\frac{15}{4}$

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.10</u>	<u>4.09</u>	<u>10.69</u>	<u>16.79</u>	<u>11.43</u>	<u>5.28</u>	<u>1.26</u>
%	<u>0.0</u>	<u>.2</u>	<u>8.2</u>	<u>21.4</u>	<u>34.2</u>	<u>22.9</u>	<u>10.6</u>	<u>2.5</u>

CPA: _____

% Glassies: 1%Avg. Microns: 136.8Color L: 100.03 a .13 b 1.95Static Flow: 0, 8.5Technician: G & E SHP $\frac{5}{7}$

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 5, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46452

Ship Date: November 2, 1992

Order No.: 0017771-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.100
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
7	10	10	11

Hard Particles ● 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	12.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.583
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

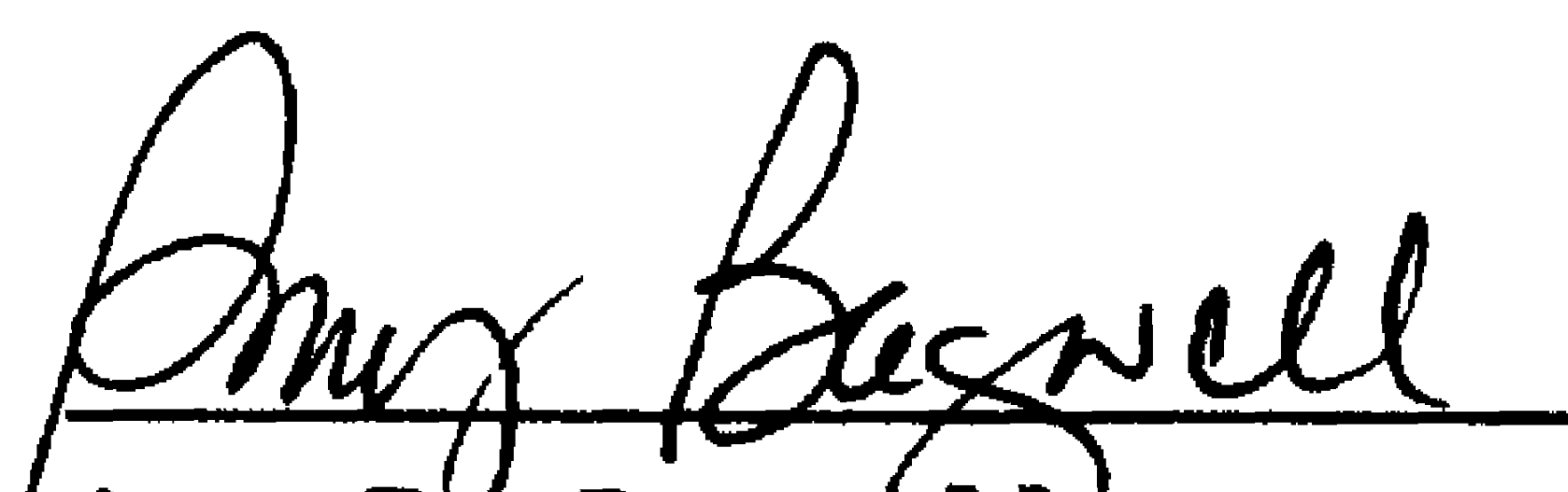
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.9	15.6	26.9	26.7	16.5	11.1	2.3

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201101

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 10-28-92Product: 5385Car No.: 46 K52 ^{UTCH}Time Logged In: 2400Logged In By: M.F.Silo(s): 685Ship Date: 11/2Order No: 0017771-001Customer: Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.14		.13		.16	
Contamination	BL <u>2</u>	—	3 <u>3</u>	—	4 <u>4</u>	—	3 <u>3</u>	—
	BR <u>5</u>		7 <u>7</u>		6 <u>6</u>		8 <u>8</u>	
Bulk Density	.577		.587		.578		.590	
BD after Fluff								
Hard Particle 5 <u>3</u>								
7 <u>2</u>								
Viscosity	.926							
RVCM	.100							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.44</u>	<u>7.80</u>	<u>13.47</u>	<u>12.90</u>	<u>8.26</u>	<u>5.55</u>	<u>1.16</u>
%	<u>0.0</u>	<u>.9</u>	<u>15.6</u>	<u>26.9</u>	<u>26.7</u>	<u>16.5</u>	<u>11.1</u>	<u>2.3</u>

Drytime: 4.8 Static Flow: 0 / 12.9 Avg. Microns: 146.6Color L: 100.36 a .17 b 1.63Technician: GO

VAB.0001201102

CERTIFICATE OF ANALYSIS

Date: November 6, 1992

Fax No. 601-286-9402

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: ACFX 41157

Ship Date: November 4, 1992

Order No.: 0018177-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.81
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.025
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

A	CA	CB	B
5	9	8	6

Dry Flow, Seconds	ABR-8	15 Sec. Max.	12.4
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.487
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.4	13.7	28.5	33.9	16.5	4.8	2.2

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

ACE

Load Date: 10-12-92Product: 5325Car No.: 41157Time Logged In: 0640Logged In By: MASilo(s): 625Ship Date: 11/4Order No: 0018177-000Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.13		.15		.16		.14	
Contamination	BL BR							
	<u>2</u> <u>3</u>	—	<u>4</u> <u>5</u>	—	<u>3</u> <u>5</u>	—	<u>2</u> <u>4</u>	—
Bulk Density	.499		.492					
BD w/antistat								
Viscosity	.813		.816		.815		.812	
RVCM	.025							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.22</u>	<u>6.85</u>	<u>14.25</u>	<u>17.06</u>	<u>8.23</u>	<u>2.40</u>	<u>1.10</u>
%	<u>0.0</u>	<u>.4</u>	<u>13.7</u>	<u>28.5</u>	<u>33.9</u>	<u>16.5</u>	<u>4.8</u>	<u>2.2</u>

CPA: 24.9% Glassies: <1%Avg. Microns: 147.7Color L: 99.79a .32b 1.82Static Flow: 0 / 12.4Technician: MA

HP

5
7 50
14

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 5, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45913

Ship Date: November 2, 1992

Order No.: 0017771-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.221
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
14	12	17	18

Hard Particles ● 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	10.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.590
Moisture, %	ABR-1A	0.30 Max.	0.04
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

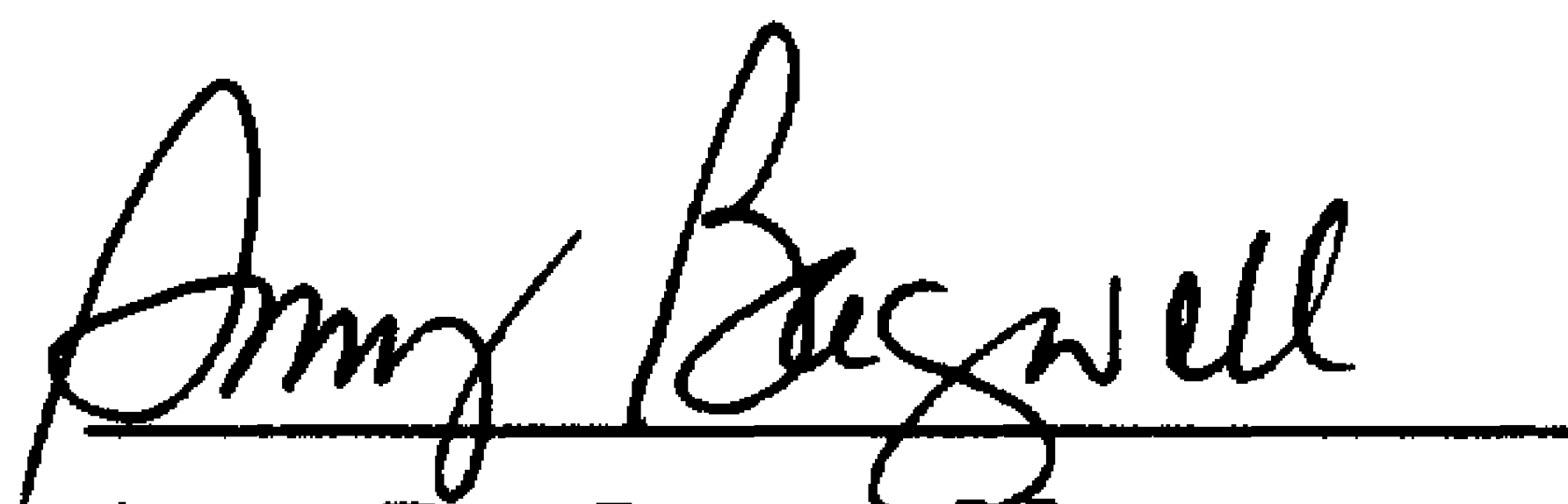
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.5	11.4	27.0	29.9	17.9	11.3	2.0

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

NEW WATER

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 10-29-92

Product: 5385

Car No.: 45913

Time Logged In: 1730

Logged In By: CO

Silo(s): 685

Ship Date: 11/2

Order No: 0017771-002

Customer: INTEX

no meter

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.04		.03		.03		.02	
Contamination	BL <u>6</u>	—	5	—	8	—	9	—
	BR <u>8</u>		7		9		9	
Bulk Density	589		589		589		591	
BD after Fluff								
Hard Particle 5	<u>6</u>	—	—	—	—	—	—	—
7	<u>2</u>							
Viscosity	.931							
RVCM	.221							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.27</u>	<u>5.71</u>	<u>13.51</u>	<u>14.52</u>	<u>8.97</u>	<u>5.64</u>	<u>.98</u>
% P	<u>0.0</u>	<u>.5</u>	<u>11.4</u>	<u>27.0</u>	<u>29.9</u>	<u>17.9</u>	<u>11.3</u>	<u>2.0</u>

Drytime: 4.8

Static Flow: 0 110.4

Avg. Microns: 1425

Color L: 100.31 a 0.07 b 1.86

Technician: MIT

VAB.0001201106

CERTIFICATE OF ANALYSIS

Date: November 2, 1992

Fax No. 601-286-9402

VISTA

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

Attention: Quality Control Dept.

Railcar No.: UTCX 46523

Ship Date: October 29, 1992

Order No.: 0017772-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.057
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
10	13	19	18

Hard Particles @ 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.0
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.515
Moisture, %	ABR-1A	0.30 Max.	0.23
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	1.9	27.8	31.4	20.6	9.9	6.5	1.9

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 4.8


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201107

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

UTCX

Load Date: 10-27-92Product: 5415Car No.: 46523Time Logged In: 1800Logged In By: DtSilo(s): 690+691Ship Date: 10/29/92Order No: 0017772-001Customer: IntexNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.18		.21		.23	
Contamination	BL		2		4		3	
	BR		11		15		15	
Bulk Density	.513		.513		.516		.516	
Hard Particle	5							
	7	2 HDL						
Viscosity	1.014							
RVCM	.057							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.93</u>	<u>13.92</u>	<u>15.72</u>	<u>10.15</u>	<u>4.95</u>	<u>3.23</u>	<u>0.97</u>
%	<u>0.0</u>	<u>1.9</u>	<u>27.8</u>	<u>31.4</u>	<u>20.6</u>	<u>9.9</u>	<u>6.5</u>	<u>1.9</u>

Drytime: 4.8Static Flow: 0, 8.0Avg. Microns: 163.2Color L: 100.82 a -0.05 b 1.36METS: 10333, 144.2%Technician: Dt

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: November 3, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 47628

Ship Date: October 27, 1992

Order No.: 0017772-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.003
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

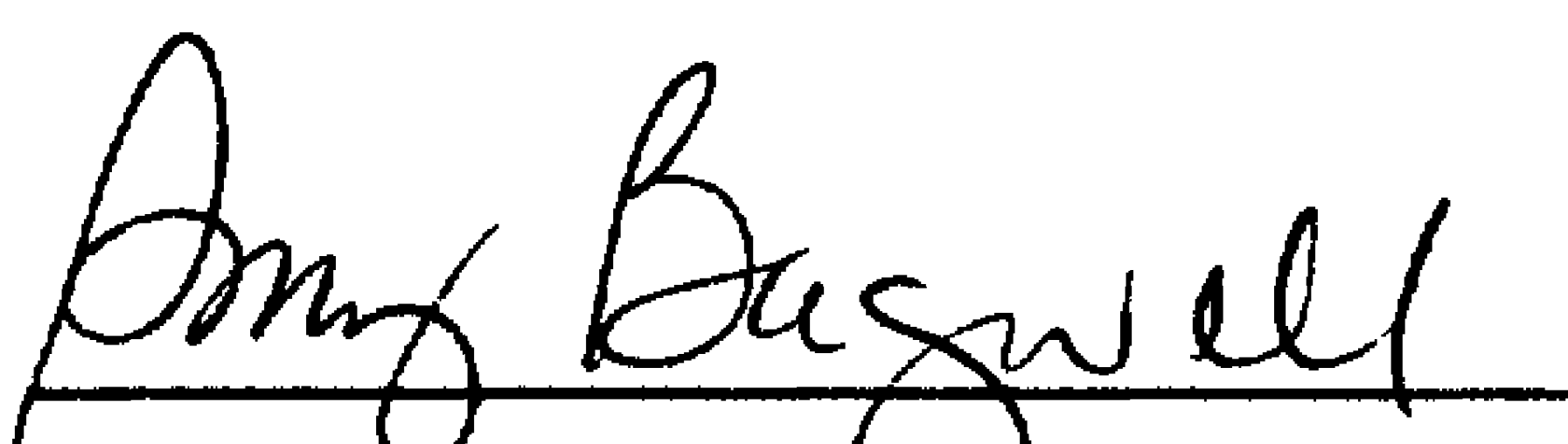
A	CA	CB	B
11	5	12	8

Hard Particles ● 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.0
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.510
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	1.4	37.6	31.2	17.0	7.0	4.4	1.4

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


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

PLC4

Load Date: 10-26-92Product: 5415Car No.: 47628Time Logged In: 1315Logged In By: JSSilo(s): 690+691Ship Date: 10/27/92Order No: [REDACTED]Customer: Wintex*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.15		.13		.11		.09	
Contamination	BL	<u>3</u>	<u>4</u>	<u>2</u>	<u>4</u>	<u>5</u>	<u>3</u>	<u>3</u>
	BR	<u>8</u>	<u>5</u>	<u>3</u>	<u>4</u>	<u>7</u>	<u>6</u>	<u>5</u>
Bulk Density	.509		.505		.515		.511	
Hard Particle	5	<u>2</u>	—	—	—	—	—	—
	7	<u>1</u>	—	—	—	—	—	—
Viscosity	1.033							
RVCM	.003							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.69</u>	<u>18.82</u>	<u>15.60</u>	<u>8.25</u>	<u>3.51</u>	<u>2.18</u>	<u>.70</u>
%	<u>0.0</u>	<u>1.4</u>	<u>37.6</u>	<u>31.2</u>	<u>17.0</u>	<u>7.0</u>	<u>4.4</u>	<u>1.4</u>

Drytime: 5.0Static Flow: 0 / 8.0Avg. Microns: 171.8Color L: 100.91 a -0.04 b 1.28

NETS: 12130 1169.3% retest Nets
10145 141.6

Technician: MATE

CERTIFICATE OF ANALYSIS

Date: October 29, 1992

Fax No. 601-286-9402

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46486

Ship Date: October 28, 1992

Order No.: 0017771-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.064
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
23	24	27	20

Hard Particles • 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	10.8
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.580
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

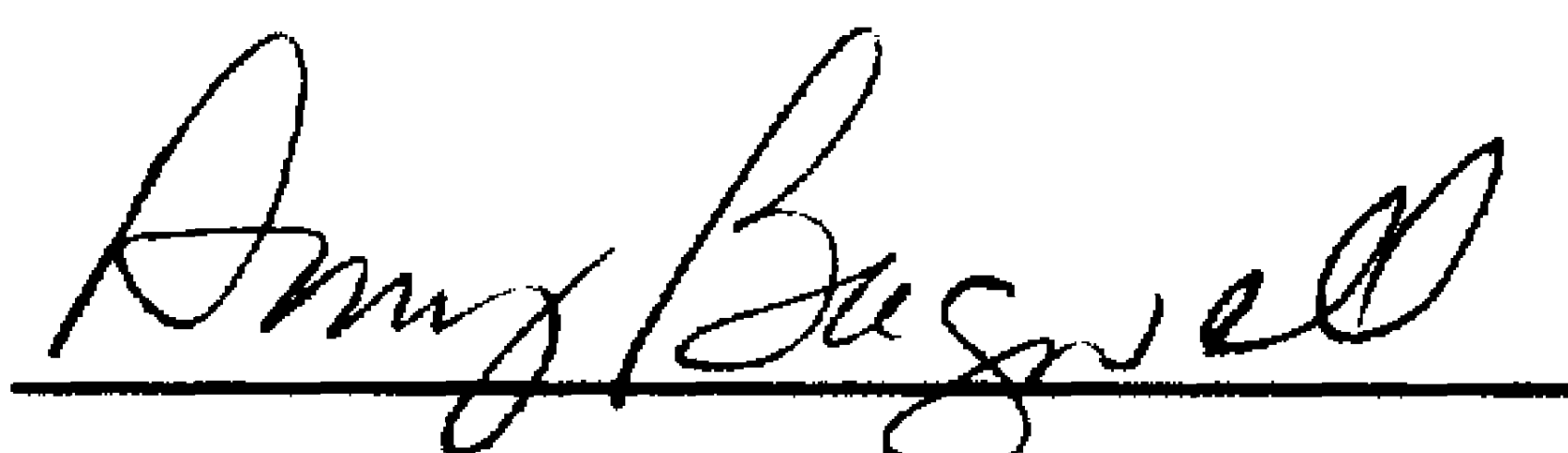
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.1	13.2	28.8	27.7	16.6	11.0	2.6

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201111

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

UTCX

Load Date: 12-13-92Product: 5385Car No.: 46486Time Logged In: 0630/2100Logged In By: RJSilo(s): 676-677Ship Date: 10/28/92Order No: 0017771-000Customer: ~~Graham~~ Inter

No TICAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.12		.13		.15	
Contamination	BL							
	BR							
	10		9		12		8	
	13		15		15		12	
Bulk Density	.582		.582		.583		.570	
BD after Fluff								
Hard Particle 5	7							
7	2 HXL							
Viscosity	.921							
RVCM	.068							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.05</u>	<u>6.61</u>	<u>14.41</u>	<u>13.79</u>	<u>8.30</u>	<u>5.51</u>	<u>1.28</u>
%	<u>0.0</u>	<u>0.1</u>	<u>13.2</u>	<u>28.8</u>	<u>27.7</u>	<u>16.6</u>	<u>11.0</u>	<u>2.6</u>

Drytime: 5.0Static Flow: 0 10.8 Avg. Microns: 1434

Color L: 98.07
12.35 a -0.02 b 2.20
100.42 -1.50
1.70

Technician: DT. + HXL

VAB.0001201112

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 29, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 43923

Ship Date: October 27, 1992

Order No.: 0017642-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.190
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
15	17	18	18

Hard Particles • 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	9.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.590
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.2	28.6	30.4	20.5	10.6	6.1	1.6

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.4
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
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VAB.0001201113

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 10-26-92Product: 5385Car No.: 43923Time Logged In: 1315Logged In By: D.T.Silo(s): 676, 677, 685Ship Date: 10/27/92Order No: 0017642-000Customer: IntexNO MEAN L

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.12		.12		.15	
Contamination	BL		5		6		6	
	BR		12		12		12	
Bulk Density	.588		.604		.580		.590	
BD after Fluff								
Hard Particle 5	19							
7	2 HD							
Viscosity	.923							
RVCM	.190							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.08</u>	<u>14.30</u>	<u>15.18</u>	<u>10.40</u>	<u>5.31</u>	<u>3.06</u>	<u>0.78</u>
%	<u>0.0</u>	<u>2.2</u>	<u>28.6</u>	<u>30.4</u>	<u>20.5</u>	<u>10.6</u>	<u>6.1</u>	<u>1.6</u>

Drytime: 4.4Static Flow: 0 / 94Avg. Microns: 1645Color L: 00.52 a 0.05 b 1.72Technician: D.T.

VAB.0001201114

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 29, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73383

Ship Date: October 28, 1992

Order No.: 0017372-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.195
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
29	19	23	17

Hard Particles ● 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	9.5
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.582
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.7	18.9	29.4	24.3	14.5	9.8	2.4

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201115

A)

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 10-11-92Product: 5385Car No.: 73383Time Logged In: 2300Logged In By: MASilo(s): 626, 677Ship Date: 10/28Order No: 0017372-002Customer: GAC4No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.15		.17		.17	
Contamination	BL <u>8</u>	—	5	—	12	—	4	—
	BR <u>21</u>		14		11		13	
Bulk Density	.572		.588		.578		.589	
BD after Fluff								
Hard Particle 5	<u>22</u>	—	—	—	—	—	—	—
7	<u>2 HDL</u>							
Viscosity	.929							
RVCM	.195							
40 Mesh/Glassies	0		0		0		0	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.33</u>	<u>9.45</u>	<u>14.68</u>	<u>12.43</u>	<u>7.25</u>	<u>4.90</u>	<u>1.18</u>
%	<u>0.0</u>	<u>0.7</u>	<u>18.9</u>	<u>29.4</u>	<u>24.3</u>	<u>14.5</u>	<u>9.8</u>	<u>2.4</u>

Drytime: 5.0Static Flow: 0, 9.5Avg. Microns: 150.4

Color L: 98.88 a 0.11 b 2.45
72.35 a 0.11 b -1.50
101.23 a 0.11 b 1.95

Technician: Auto

VAB.0001201116

Vista Polymers
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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

October October 26, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45251

Ship Date: October 23, 1992

Order No.: 0017372-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
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Residual VCM, ppm	ABGC-26	8.5 Max.	0.120
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Contamination, BLK + BRN	ABR-5A	40 Total	
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Total Black + Brown

A	CA	CB	B
21	25	23	25

Hard Particles @ 7 Mins.	ABR-12	15 Max.	5
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Dry Flow, Seconds	ABR-8	15 Max.	11.8
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Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.571
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Moisture, %	ABR-1A	0.30 Max.	0.12
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Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	
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MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.4	16.6	32.7	26.5	14.1	8.0	1.7

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



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VAB.0001201117

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 10-19-92Product: 5385Car No.: 45251Time Logged In: 2330Logged In By: DTSilo(s): 677Ship Date: 10/23/92Order No: 0017372-001Customer: IntexNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.12		.12		.12	
Contamination	BL	5	7		5		5	
	BR	16	18		18		20	
Bulk Density	.570		.572		.570		.572	
BD after Fluff								
Hard Particle 5	11							
7	5 HBL							
Viscosity	.920							
RVCM	.120							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.22</u>	<u>8.28</u>	<u>16.36</u>	<u>13.45</u>	<u>7.03</u>	<u>3.98</u>	<u>0.86</u>
%	<u>0.0</u>	<u>0.4</u>	<u>16.6</u>	<u>32.7</u>	<u>26.5</u>	<u>14.1</u>	<u>8.0</u>	<u>1.7</u>

Drytime: 48Static Flow: 0 11.8Avg. Microns: 150.5Color L: 100.51 a 0.01 b 1.71 ~~1.71~~Technician: DT

10/19 N

VAB.0001201118

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 26, 1992
Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Fax No. 601-286-9402

VISTA

Product: 5325

Attention: Quality Control Dept.

Railcar No.: ACFX 41163

Ship Date: October 23, 1992

Order No.: 0017193-002

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.81
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.180
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

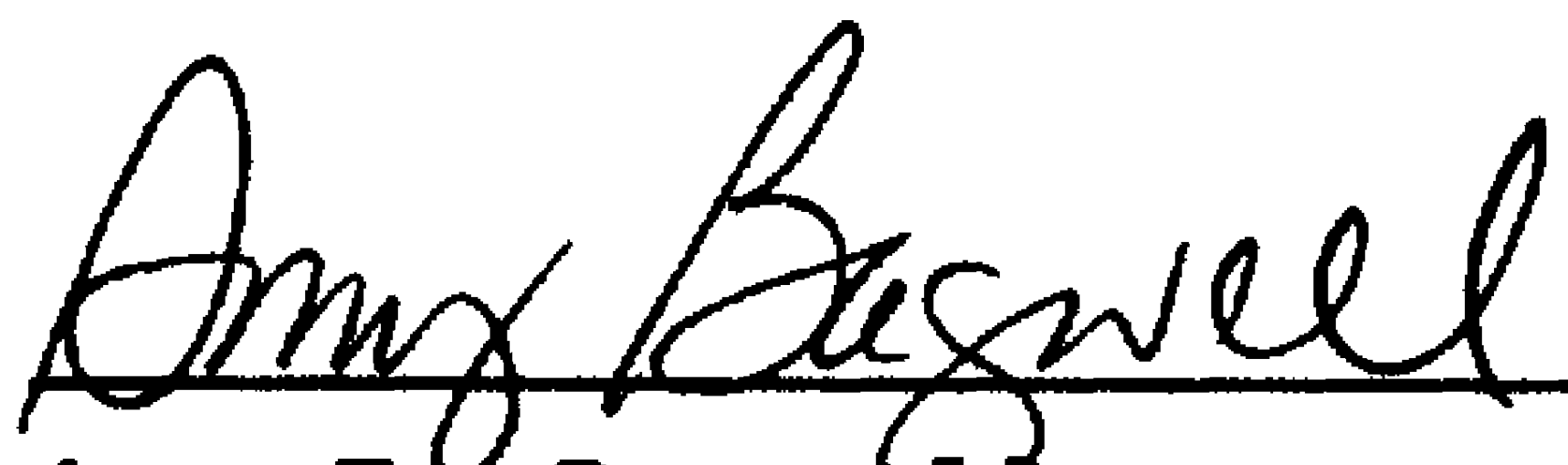
A	CA	CB	B
13	13	12	14

Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.1
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.499
Moisture, %	ABR-1A	0.30 Max.	0.19
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.3	11.4	26.3	35.6	18.4	5.8	2.2

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201119

PVC RAILCAR ANALYSIS

Load Date: 10-10-92Product: 5325Car No.: 41163Time Logged In: 2300Logged In By: MDSilo(s): 685Ship Date: 10/23Order No: 0017193-002Customer: Int'l

no mitl

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.17		.15		.18		.19	
Contamination	BL							
	BR							
	<u>5</u>	—	<u>4</u>	—	<u>5</u>	—	<u>6</u>	—
	<u>8</u>		<u>9</u>		<u>7</u>		<u>8</u>	
Bulk Density	.505		.498		.498		.495	
BD w/antistat								
Viscosity	.814		.811		.807		.810	
RVCM	.086		.089		.137		.180	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.16</u>	<u>5.70</u>	<u>13.14</u>	<u>17.63</u>	<u>9.32</u>	<u>2.90</u>	<u>1.09</u>
%	<u>0.0</u>	<u>.3</u>	<u>11.4</u>	<u>26.3</u>	<u>35.6</u>	<u>18.4</u>	<u>5.8</u>	<u>2.2</u>

CPA: 24.9% Glassies: 41%Avg. Microns: 144.2Color L: 99.79 a .40 b 1.92Static Flow: 0 / 9.1Technician: MDATE

HP 5 50
7 15

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 22, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: UTCX 46552

Ship Date: October 19, 1992

Order No.: 0017193-001

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.81
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.112
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

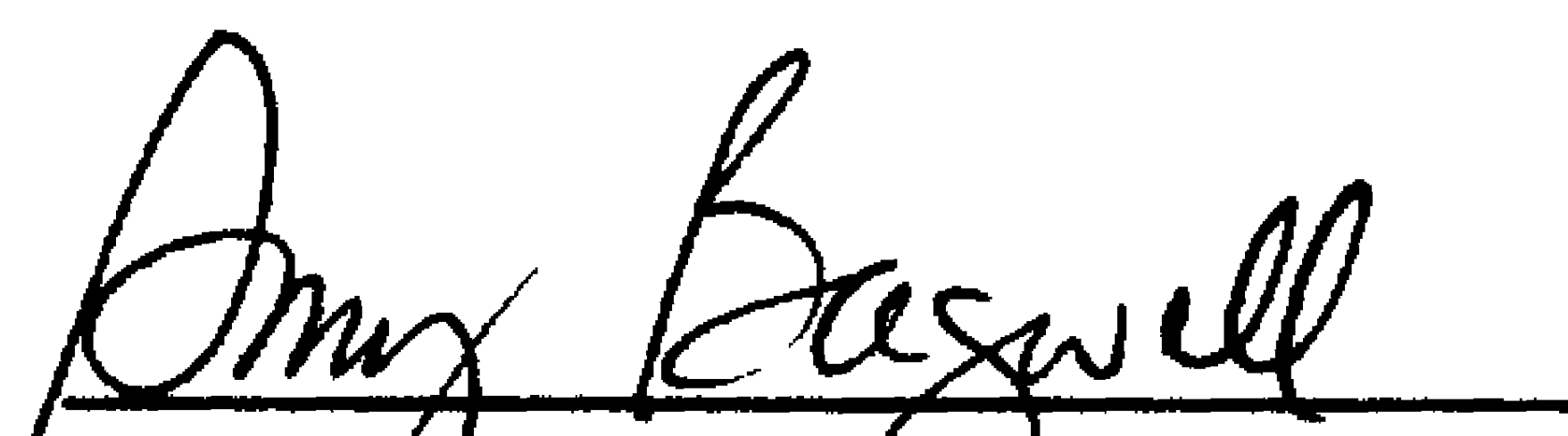
A	CA	CB	B
12	12	10	12

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.7
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.491
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.6	15.2	30.7	33.3	13.6	3.6	3.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
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Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9-16-92Product: 5325Car No.: 46552Time Logged In: 1730Logged In By: DTSilo(s): 685Ship Date: 10/19/92Order No: 0017193-001Customer: ~~PP~~ / ~~PP~~

INTEX

NO metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.12		.15		.17		.16	
Contamination	BL	<u>4</u>	—	<u>6</u>	—	<u>3</u>	<u>4</u>	—
	BR	<u>8</u>		<u>6</u>		<u>7</u>	<u>8</u>	
Bulk Density	.485		.481		.501		.499	
BD w/antistat								
Viscosity	.808		.803		.806		.807	
RVCM	.112		.063		.076		.081	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.31</u>	<u>7.58</u>	<u>15.35</u>	<u>16.69</u>	<u>6.81</u>	<u>1.81</u>	<u>1.49</u>
% P	<u>0.0</u>	<u>.6</u>	<u>15.2</u>	<u>30.7</u>	<u>33.3</u>	<u>13.6</u>	<u>3.6</u>	<u>3.0</u>

CPA: 25.8% Glassies: <1%Avg. Microns: 150.2Color L: 100.03 a 0.40 b 1.67Static Flow: 0 18.7Technician: M. T. & R. H.

HP 6/3

Vista Polymers
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Vista Chemical Company

Highway 25
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Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 21, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45827

Ship Date: October 19, 1992

Order No.: 0017372-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.303
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
13	10	12	10

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.3
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.578
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.2	14.8	28.1	28.5	15.8	10.3	2.3

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
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VAB.0001201123

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

VIP4

Load Date: 10-11-92Product: 5385Car No.: 45827Time Logged In: 1500Logged In By: RylSilo(s): 676, 677Ship Date: 10/19/92Order No: 0017372-000Customer: ~~Intex~~ Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.13		.16		.14	
Contamination	BL							
	BR							
	<u>5</u>	—	<u>4</u>	—	<u>3</u>	—	<u>4</u>	—
	<u>8</u>		<u>6</u>		<u>9</u>		<u>6</u>	
Bulk Density	.576		.580		.577		.578	
BD after Fluff								
Hard Particle 5	<u>8</u>	—	—	—	—	—	—	—
7	<u>2</u>							
Viscosity	<u>916</u>							
RVCM	<u>.303</u>							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.09</u>	<u>7.42</u>	<u>14.06</u>	<u>14.52</u>	<u>7.91</u>	<u>5.15</u>	<u>1.15</u>
%	<u>0.0</u>	<u>.2</u>	<u>14.8</u>	<u>28.1</u>	<u>28.5</u>	<u>15.8</u>	<u>10.3</u>	<u>2.3</u>

Drytime: 5.0Static Flow: 0 / 8.3Avg. Microns: 145.5Color L: 100.62 a .10 b 2.10Technician: MATE

VAB.0001201124

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 21, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PTLX 41650

Ship Date: October 16, 1992

Order No.: 0016920-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.91
Residual VCM, ppm	ABGC-26	8.5 Max.	0.060
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	11	12	12

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	13.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.556
Moisture, %	ABR-1A	0.30 Max.	0.10
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	14.6	30.3	27.7	15.3	9.6	2.2

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201125

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

PTLY

Load Date: 10-10-92Product: 5385Car No.: 41650Time Logged In: 1000Logged In By: GOSilo(s): 677Ship Date: 10/16/92Order No: 0016920-003Customer: Interno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.10		.10		.10	
Contamination	BL	3	2	4	3			
	BR	5	9	8	9			
Bulk Density	.573		.570		.540		.541	
BD after Fluff								
Hard Particle 5	6							
7	2 AH							
Viscosity	.914							
RVCM	.060							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	.13	7.30	15.14	13.74	7.66	4.80	1.11
%	0.0	.3	14.6	30.3	27.7	15.3	9.6	2.2

Drytime: 4.9Static Flow: 0, 13.4 Avg. Microns: 146.6Color L: 100.54 a .05 b 2.41Technician: G & RA

VAB.0001201126

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 16, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

Attention: Quality Control Dept.

Railcar No.: VIPX 45878

Ship Date: October 14, 1992

Order No.: 0017193-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.78 - 0.82	0.81
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Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.081
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Contamination, BLK + BRN	ABR-5A	Not Yet Determined	
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Total Black + Brown

A	CA	CB	B
7	10	8	6

Dry Flow, Seconds	ABR-8	15 Sec. Max.	10.9
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Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.499
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Moisture, %	ABR-1A	0.30 Max.	0.15
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Particle Size Distribution	ABR-3	5.0 Max. on Pan	
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% ON

40	60	80	100	120	140	200	PAN
0.0	0.4	13.2	28.3	34.6	16.2	5.0	2.3

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VISTA

PVC RAILCAR ANALYSIS

Load Date: 10-10-92Product: 5325Car No.: 45878 ^{VIP4}Time Logged In: 0630Logged In By: MJSilo(s): 685Ship Date: 10/14/92Order No: 0017193-000Customer: Interex*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.15		.09		.11		.13	
Contamination	BL							
	BR							
	$\frac{2}{5}$	—	$\frac{4}{6}$	—	$\frac{3}{5}$	—	$\frac{2}{4}$	—
Bulk Density	.489		.487		.509		.509	
BD w/antistat								
Viscosity	.811		.796		.809		.806	
RVCM	.081							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.18</u>	<u>6.59</u>	<u>14.13</u>	<u>17.15</u>	<u>8.10</u>	<u>2.49</u>	<u>1.13</u>
%	<u>0.0</u>	<u>.4</u>	<u>13.2</u>	<u>28.3</u>	<u>34.6</u>	<u>16.2</u>	<u>5.0</u>	<u>2.3</u>

CPA: 24.4 % Glassies: 61% Avg. Microns: 147.1Color L: 99.96 a .30 b 1.83 Static Flow: 0 / 10.9Technician: MJH.P 5 50
7 16

FAX (601) 369-3642

RAILCAR SHIPMENT ORDER TO DIVERT/RE-SHIP/RETURN

TO: AMY BAG WGLL

DATE:

10/26

RAILCAR NUMBER:

UTCX 46571 ?

ORIGINAL SHIP DATE:

10/13

ORIGINAL ORIGIN PLANT:

A1

ORIGINAL PRODUCT WEIGHT:

186,950

PRODUCT NAME & CODE:

5385, 10790

ORIGINAL CUSTOMER:

03902000

ORIGINAL CUSTOMER LOCATION:

Carinth, MS

ORIGINAL ORDER NUMBER:

0016920-002

NEW CUSTOMER:

ABD

NEW LOCATION:

Aberdeen, MS

NEW ORDER NUMBER:

DO YOU NEED RAILCAR RE-WEIGHED? (YES/NO)

Y

REASON FOR CHANGE: (EG. OFF-SPEC, ETC.)

Black specs - off spec

CAR RELEASED (YES/NO):

Y

BILLING INSTRUCTIONS MUST BE COMMUNICATED TO RAIL FREIGHT & CONTRACTS
FOR ISSUING BILL OF LADING ON OR BEFORE THE DAY THE CAR IS RELEASED.

OTHER COMMENTS:

JME - What is going on
with these people !!

CUSTOMER SERVICE REPRESENTATIVE:

CMC AEB

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 14, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46571

Ship Date: October 13, 1992

Order No.: 0016920-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.086
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	11	9	11

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	10.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.11
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.8	20.1	30.2	23.6	13.6	9.2	2.5

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201130

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 10-9-92Product: 5385Car No.: 46571Time Logged In: 1700Logged In By: D.T.Silo(s): 676, 677Ship Date: 10/13/92Order No: 0016920-002Customer: ~~INTEK~~ INTEK

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.09		.11		.06	
Contamination	BL <u>3</u>	—	3	—	2	—	4	—
	BR <u>5</u>		8		9		7	
Bulk Density	.580		.583		.581		.580	
BD after Fluff								
Hard Particle 5	<u>3</u>	—	—	—	—	—	—	—
7	<u>2 RH</u>							
Viscosity	.923							
RVCM	.086							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.42</u>	<u>10.03</u>	<u>15.12</u>	<u>11.95</u>	<u>6.78</u>	<u>4.61</u>	<u>1.23</u>
%	<u>6.0</u>	<u>18</u>	<u>20.1</u>	<u>30.2</u>	<u>23.6</u>	<u>13.6</u>	<u>9.2</u>	<u>2.5</u>

Drytime: 5.0 Static Flow: 0 / 10.1 Avg. Microns: 152.1Color L: 100.66 a .10 b 1.98Technician: C + RH

VAB.0001201131

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 13, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45913

Ship Date: October 9, 1992

Order No.: 0016920-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.050
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
6	12	9	12

Hard Particles • 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	9.2
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.578
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

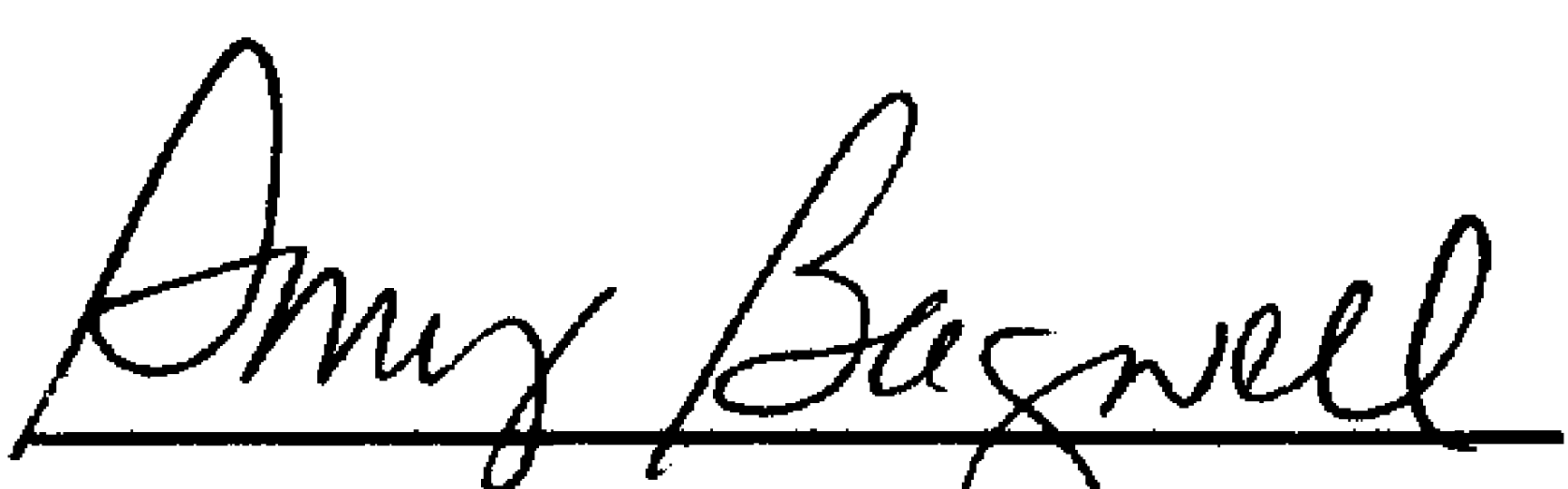
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.2	23.8	29.8	22.9	12.4	7.8	2.1

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201132

Viata Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 10-7-92Product: 5385Car No.: 45913Time Logged In: 1400Logged In By: MASilo(s): 685677, 676Ship Date: 10/9Order No: 16920-001Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.08		.13		.10	
Contamination	BL							
	BR							
	<u>2</u>	—	<u>3</u>	—	<u>2</u>	—	<u>4</u>	—
	<u>4</u>		<u>9</u>		<u>7</u>		<u>8</u>	
Bulk Density	.580		.576		.580		.576	
BD after Fluff								
Hard Particle 5	<u>8</u>	—	—	—	—	—	—	—
	<u>2</u>							
Viscosity	.932							
RVCM	.050							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.58</u>	<u>11.90</u>	<u>14.89</u>	<u>11.44</u>	<u>6.18</u>	<u>3.88</u>	<u>1.03</u>
%	<u>0.0</u>	<u>1.2</u>	<u>23.8</u>	<u>29.8</u>	<u>22.9</u>	<u>12.4</u>	<u>7.8</u>	<u>2.1</u>

Drytime: 4.9Static Flow: 0, 9.2Avg. Microns: 157.0Color L: 100.50 a 01 b 2.33Technician: Co

VAB.0001201133

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

Fax No. 601-286-9402

Date: October 9, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 47629

Ship Date: October 8, 1992

Order No.: 0016884-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.002
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

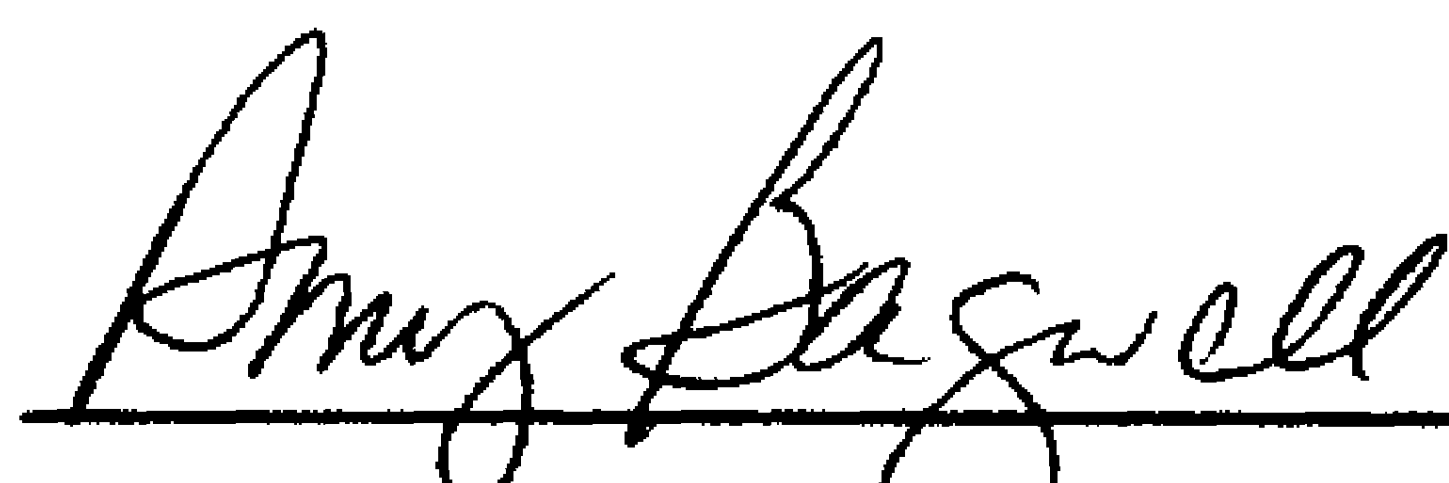
A	CA	CB	B
8	9	10	10

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.0
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.520
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.5	37.8	30.6	15.9	7.1	4.5	1.6

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



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201134

PVC RAILCAR ANALYSIS

Load Date: 10-1-92Product: 5415Car No.: 47629Time Logged In: 0400Logged In By: MTSilo(s): 690-691Ship Date: 10/8Order No: 16884-001Customer: ~~Bentley~~ IPC ~~SE~~No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.14		.15		.14		.16	
Contamination	BL	<u>3</u>	<u>4</u>	<u>2</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>2</u>
	BR	<u>5</u>	<u>8</u>	<u>7</u>	<u>9</u>	<u>8</u>	<u>11</u>	<u>10</u>
Bulk Density	.519		.523		.517		.521	
Hard Particle	5	<u>3</u>	—	—	—	—	—	—
	7	<u>1ES</u>	—	—	—	—	—	—
Viscosity	1.024							
RVCM	.002							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.26</u>	<u>18.89</u>	<u>15.31</u>	<u>8.02</u>	<u>3.54</u>	<u>2.24</u>	<u>.79</u>
%	<u>0.0</u>	<u>2.5</u>	<u>37.8</u>	<u>30.6</u>	<u>15.9</u>	<u>7.1</u>	<u>4.5</u>	<u>1.6</u>

Drytime: 4.8Static Flow: 0.9.0Avg. Microns: 173.7Color L: 101.25 a 0.02 b 1.22METS: 10145 1133.6%Technician: CD + ED

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 9, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41153

Ship Date: October 7, 1992

Order No.: 0016920-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.083
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
17	17	16	14

Hard Particles ● 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.577
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

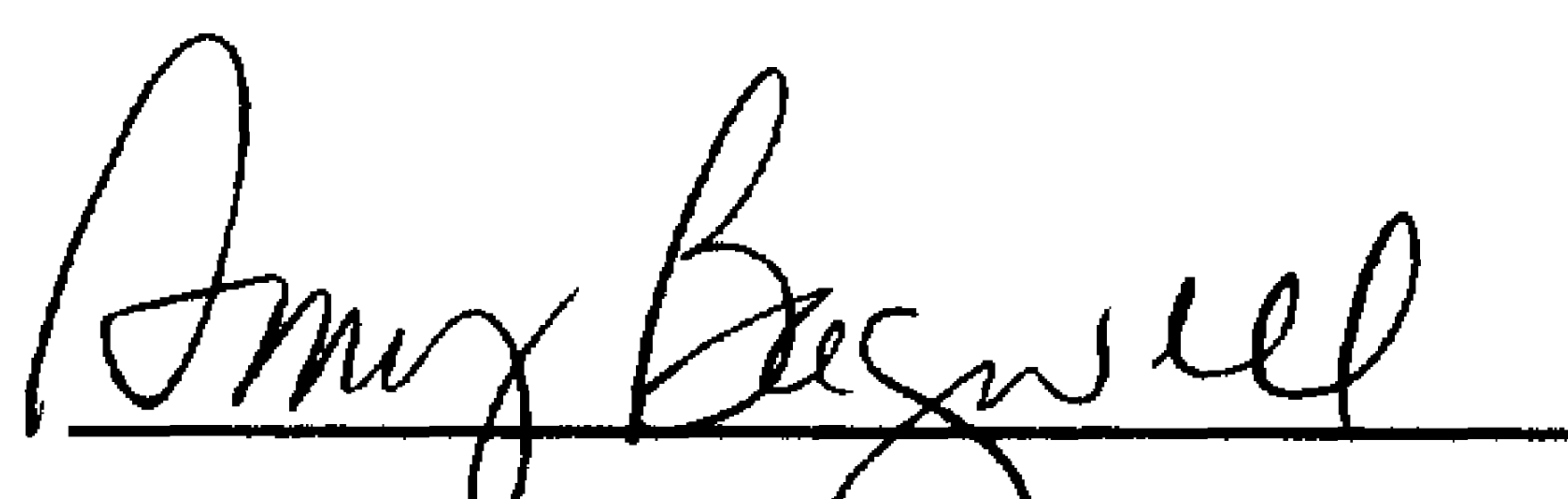
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.7	31.1	28.8	18.9	10.3	6.3	1.9

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.1
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201136

Viata Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 10-5-92Product: 5385Car No.: 41153Time Logged In: 0200Logged In By: P.T.Silo(s): 676, 677, 685Ship Date: 10/7Order No: 16920-000Customer: IPC*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.17		.12	
Contamination	BL							
	BR							
	9	—	10	—	5	—	5	—
	8		7		11		9	
Bulk Density	.580		.577		.575		.578	
BD after Fluff								
Hard Particle 5	18	—	—	—	—	—	—	—
7	2							
Viscosity	.921							
RVCM	.083							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.34</u>	<u>15.54</u>	<u>14.42</u>	<u>9.61</u>	<u>5.13</u>	<u>3.14</u>	<u>.94</u>
%	<u>0.0</u>	<u>2.7</u>	<u>31.1</u>	<u>28.8</u>	<u>18.9</u>	<u>10.3</u>	<u>6.3</u>	<u>1.9</u>

Drytime: 5.1Static Flow: 0 / 8.0Avg. Microns: 166.7Color L: 100.91 a .22 b 1.80Technician: MDYTF

VAB.0001201137

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 6, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45801

Ship Date: October 5, 1992

Order No.: 0016884-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.016
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
6	9	6	5

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.6
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.522
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.1	34.1	31.2	17.7	8.0	5.3	1.6

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



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

Load Date: 10-29-92 Product: 5415 Car No.: 45801
 Time Logged In: 0400 Logged In By: M.T Silo(s): 690-691
 Ship Date: 10/5 Order No: 16884-000 Customer: IPC

No. Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.14		.16		.15		.14	
Contamination ^{BL}	<u>2</u>	—	<u>3</u>	—	<u>1</u>	—	<u>2</u>	—
<u>No TOP samples</u> ^{BR}	<u>4</u>		<u>6</u>		<u>5</u>		<u>3</u>	
Bulk Density	.523		.516		.526		.523	
Hard Particle ⁵	<u>3</u>	—	—	—	—	—	—	—
⁷	<u>1 ES</u>							
Viscosity	1.027							
RVCM	.016							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.03</u>	<u>17.06</u>	<u>15.59</u>	<u>8.90</u>	<u>3.99</u>	<u>2.63</u>	<u>.80</u>
%	<u>0.0</u>	<u>2.1</u>	<u>34.1</u>	<u>31.2</u>	<u>17.7</u>	<u>8.0</u>	<u>5.3</u>	<u>1.6</u>

Drytime: 4.9 Static Flow: 0.9.6 Avg. Microns: 169.7

Color L: 101.08 a 0.03 b 1.36

METS: 9789, 128.9%

Technician: C. J. E. S.

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 6, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46472

Ship Date: September 30, 1992

Order No.: 0016358-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.027
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
8	8	6	6

Hard Particles ● 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.508
Moisture, %	ABR-1A	0.30 Max.	0.22
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.1	40.0	29.7	14.8	6.4	4.3	1.7

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


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

NO D/O

A

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 9-29-92 Product: 5415 Car No.: 46472
 Time Logged In: 0300 Logged In By: MS Silo(s): 690, 691
 Ship Date: ~~11-20-92~~ Order No: ~~001038002~~ 1001038002

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.20		.21		.22		.22	
Contamination BL	2	—	4	—	2	—	1	—
No tops BR	6	—	4	—	4	—	5	—
Bulk Density	.510		.510		.510		.503	
Hard Particle 5	3	—	—	—	—	—	—	—
7	pc	—	—	—	—	—	—	—
Viscosity	1.027							
RVCM	.027							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	1.54	20.00	14.86	7.41	3.21	2.13	0.86
%	0.0	3.1	40.0	29.7	14.8	6.4	4.3	1.7

Drytime: 5.0 Static Flow: 0.9.2 Avg. Microns: 176.5

Color L: 100.78 a 0.08 b 1.50

METS: 9789, 135.4%

Technician: D.T. + H.D.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

Fax No. 601-286-9402

Date: 10/2/92

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 47613

Ship Date: 10/1/92

Order No.: 0016821-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
Residual VCM, ppm	ABGC-26	8.5 Max.	0.046
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
15	13	16	16

Hard Particles @ 7 Mins.	ABR-12	15 Max.	5
Dry Flow, Seconds	ABR-8	15 Max.	9.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.580
Moisture, %	ABR-1A	0.30 Max.	0.12
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

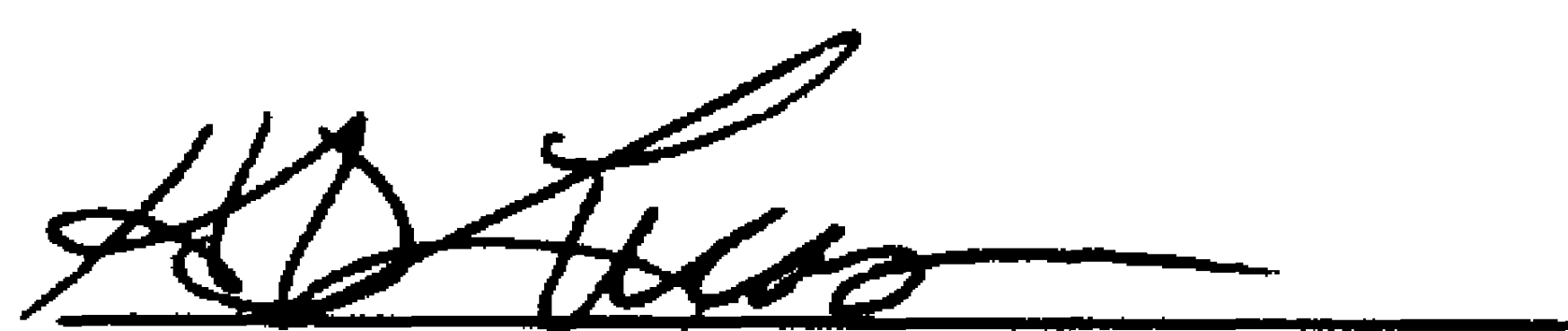
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.5	14.9	27.4	26.6	16.3	11.3	3.0

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.8
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001201142

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 9/19/92 Product: 5385 Car No.: 47613 ^{PLCX}
 Time Logged In: 0600 Logged In By: ASZ Silo(s): 676/677
 Ship Date: 10/1/92 Order No: 0016821-000 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.06		.04		.04	
Contamination	BL	<u>3</u>	—	<u>3</u>	—	<u>4</u>	—	<u>9</u>
	BR	<u>12</u>	—	<u>10</u>	—	<u>12</u>	—	<u>7</u>
Bulk Density	.575		.576		.585		.585	
BD after Fluff								
Hard Particle 5	<u>9</u>	—	—	—	—	—	—	—
7	<u>5 ES</u>							
Viscosity	.935							
RVCM	.046							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.26</u>	<u>7.46</u>	<u>13.70</u>	<u>13.33</u>	<u>8.13</u>	<u>5.67</u>	<u>1.48</u>
% P	<u>00</u>	<u>.5</u>	<u>14.9</u>	<u>27.4</u>	<u>26.6</u>	<u>16.3</u>	<u>11.3</u>	<u>3.0</u>

Drytime: 4.8 Static Flow: 0 19.1 Avg. Microns: 144.7

Color L: 100.45 a 0.18 b 1.88

Technician: M.T & ES

VAB.0001201143

TRANSMISSION CONFIRMATION REPORT

No.=000549

A

DATE/TIME	OCT 2, 1992 11:47AM
DURATION	37
TRANSMITTER (FROM)	VISTA QC LAB 601 369 3642
RECEIVER (TO)	----- 601 286 9402
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3
RESOLUTION	NORMAL

VAB.0001201144
55-0000349

CERTIFICATE OF ANALYSIS

Fax No. 601-286-9402

Date: October 1, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5325

Attention: Quality Control Dept.

Railcar No.: PLWX 44410

Ship Date: September 29, 1992

Order No.: 0016594-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.80
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.100
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

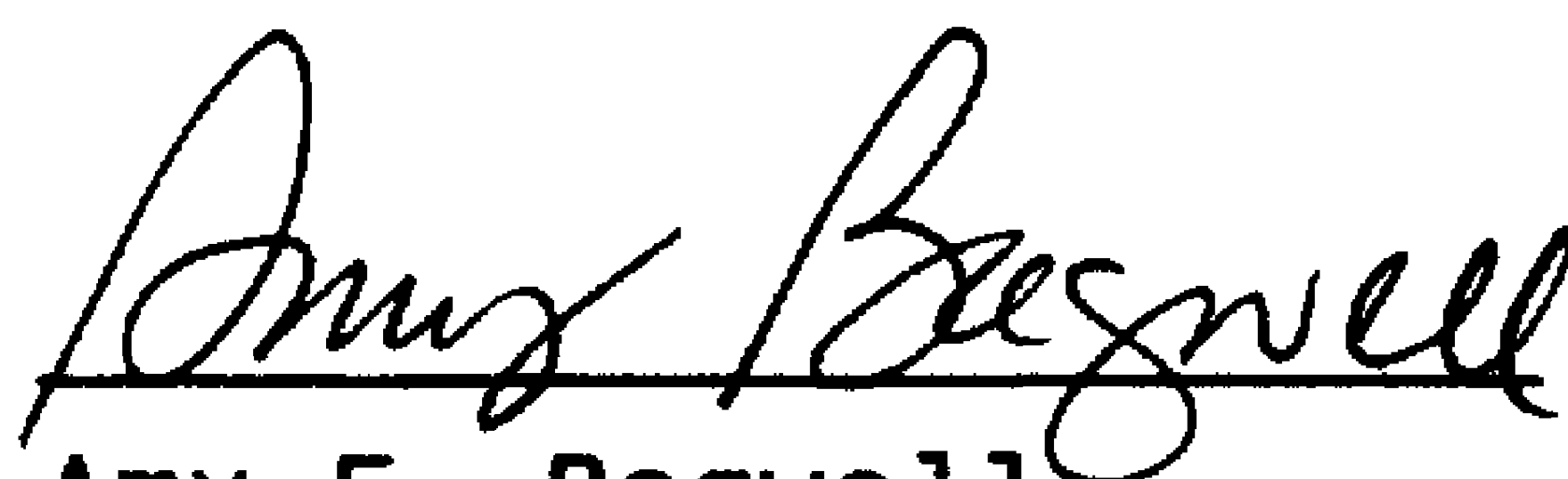
A	CA	CB	B
12	13	12	13

Dry Flow, Seconds	ABR-8	15 Sec. Max.	10.9
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.489
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.8	16.6	31.5	32.3	12.7	3.4	2.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

PVC RAILCAR ANALYSIS

Load Date: 9-15-92Product: 5325Car No.: 44410Time Logged In: 0500Logged In By: MMSilo(s): 685Ship Date: 9/29Order No: 16594-000Customer: IPC Premier*NO metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.09		.12		.12		.15	
Contamination	BL		5		7		6	
	BR		8		5		7	
Bulk Density	.486		.482		.481		.508	
BD w/antistat								
Viscosity	.804		.805		.802		.799	
RVCM	.064		.028		.003		.100	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.40</u>	<u>8.32</u>	<u>15.75</u>	<u>16.09</u>	<u>6.37</u>	<u>1.71</u>	<u>1.35</u>
% P	<u>0.0</u>	<u>.8</u>	<u>16.6</u>	<u>31.5</u>	<u>32.3</u>	<u>12.7</u>	<u>3.4</u>	<u>2.7</u>

CPA: 25.9% Glassies: 41%Avg. Microns: 152.5Color L: 99.48 a 0.08 b 1.41Static Flow: 0 / 10.9Technician: MIT & RH

Vista Polymers
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Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 10/1/92

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

VISTA

Lot No.: 04911

Attention: Quality Control Dept.

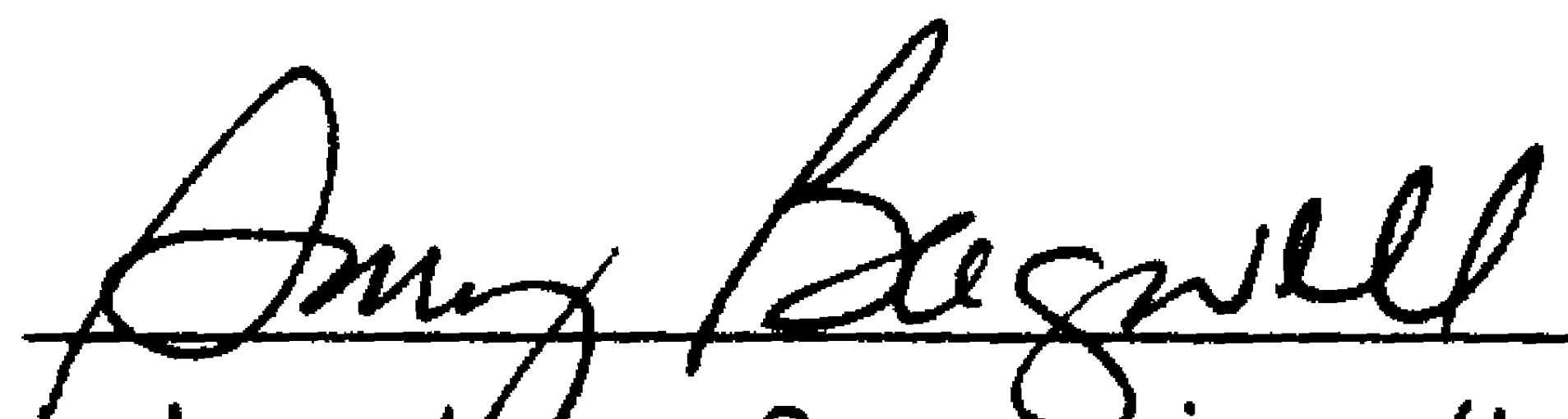
Truck No.: T-7088

Ship Date: 9/29/92

Order No.: 0016624-000

<u>Property</u>	<u>Test Method</u>	<u>VISTA Specification</u>	<u>Analysis</u>												
Inherent Viscosity	ABR-10	0.78 - 0.82	<u>0.80</u>												
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	<u>0.067</u>												
Contamination, BLK/BRN	ABR-5A	35/100 Max.	<u>3/7</u>												
Hard Particles @ 7 Mins.	ABR-12A	No Spec.	<u>NOT AVAILABLE</u>												
Dry Flow, Seconds	ABR-8	15 Sec. Max.	<u>9.9</u>												
Bulk Density, gm/cc	ABR-2A	0.480 Min.	<u>0.491</u>												
Moisture, %	ABR-1A	0.30 Max.	<u>0.17</u>												
Particle Size Distribution	ABR-3	5.0 Max. on Pan													
MESH	<table><tr><td>40</td><td>60</td><td>80</td><td>100</td><td>120</td><td>140</td><td>200</td><td>PAN</td></tr></table>							40	60	80	100	120	140	200	PAN
40	60	80	100	120	140	200	PAN								
% ON	<table><tr><td>0.00</td><td>0.2</td><td>10.8</td><td>27.2</td><td>35.2</td><td>18.6</td><td>6.3</td><td>1.7</td></tr></table>							0.00	0.2	10.8	27.2	35.2	18.6	6.3	1.7
0.00	0.2	10.8	27.2	35.2	18.6	6.3	1.7								

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

"Bag Blend"

from 46435

Regulars or Bags

Page _____ of _____ pages

Vinyl Sample Log

Date 3-12-92

Product Type 5325

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					
04911	2100 COPIES	BAS	1	—	0.	.67	23.11	44.33	48.22	21.39	5.67	.63	—	MICROKES-144.0	—	—	0	20	50	80	25.9				
			4		0.00	.12	5.40	13.60	17.09	9.30	3.13	.85													
			10		0.0	.2	10.8	27.2	35.2	18.6	6.3	1.7	P					.491	9.9	99.47			46	1.66	<17%
			m/c 1	.12												2/6		20	50	80		.802			
			m/c 4	.14												1/5		20	50	80		.809			
			m/c 7	.16												3/7		20	50	80	RVCM-.067				
			m/c 10	.14												2/6		20	50	80					
			m/c 13	.17												1/4									
			m/c 16	.14												3/7		20	50	80					
			m/c 19	.15												2/6									

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: 10/1/92

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

VISTA

Lot No.: 04988

Attention: Quality Control Dept.

Truck No.: T-7088

Ship Date: 9/29/92

Order No.: 0016624-000

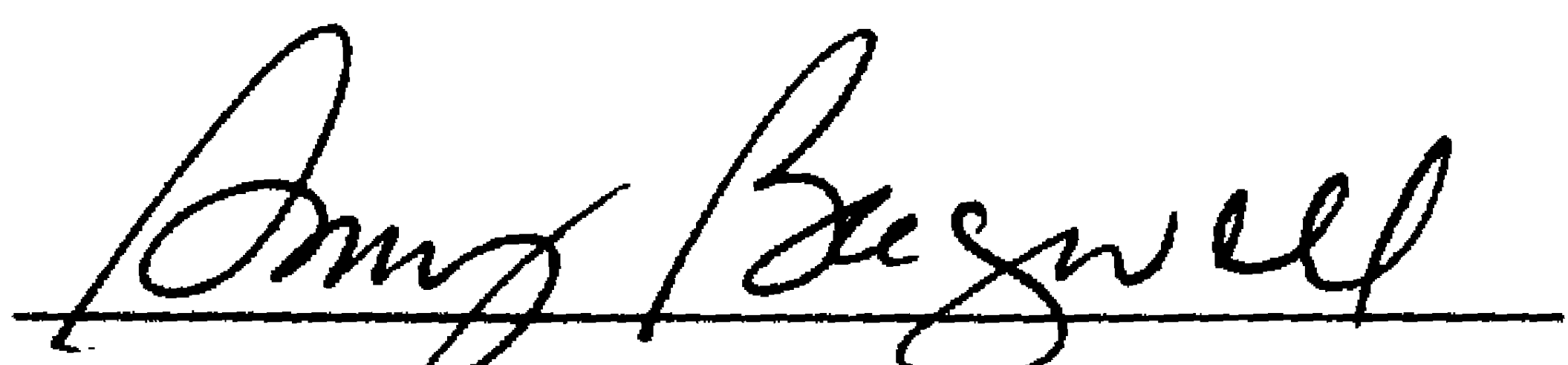
Property	Test Method	VISTA Specification	Analysis
Inherent Viscosity	ABR-10	0.78 - 0.82	<u>0.80</u>
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	<u>0.070</u>
Contamination, BLK/BRN	ABR-5A	35/100 Max.	<u>3/7</u>
Hard Particles @ 7 Mins.	ABR-12A	No Spec.	<u>50</u>
Dry Flow, Seconds	ABR-8	15 Sec. Max.	<u>7.6</u>
Bulk Density, gm/cc	ABR-2A	0.480 Min.	<u>0.515</u>
Moisture, %	ABR-1A	0.30 Max.	<u>0.17</u>
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.2	12.6	26.5	34.2	17.8	6.2	2.5

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001201149

RESIN BAG BLEND

BLEND NO: 04988

PRODUCT: 5325

DATE: 7-2-92

TIME/TESTED BY: 13:00 / R.H.M.T.

Avg. Microns, 5225/5325/5415: 145

SKID NO.	% MOIST	BLACK/BROWN CONT.	PARTICLE SIZE DISTRIBUTION								BULK DENS	S/P 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	6 13, SKID	0.0	0.08	6.31	13.23	16.99	8.98	3.12	1.23		59/90		0/							
			0.0	.2	12.6	26.5	34.2	17.9	6.2	2.5	515	-	-	7.6	10026	0.24	1.61	25.5	41%		.070
SKID #1	.17	3/6																		801	
SKID #4	.15	1/8																			
SKID #7	.15	2/4																			
SKID #10	.17	3/5																			
SKID #13	.16	3/7																		.798	
SKID #16	.16	1/10																			
SKID #19	.16	3/6																			
SKID #22																					
SKID #25																					
SKID #28																					
SKID #31																					
SKID #34																					
SKID #37																					

Vista Polymers
A Division of
Vista Chemical Company

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Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: September 29, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: UTCX 46406

Attention: Quality Control Dept.

Order No.: 0016358-001

Ship Date: September 28, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.024
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
9	10	9	6

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.0
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.508
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.9	40.9	29.1	14.4	6.1	4.1	1.5

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


Amy E. Bagwell
Laboratory Supervisor

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Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9-27-92Product: 5415Car No.: 46406Time Logged In: 1500Logged In By: M.TSilo(s): 690-691Ship Date: 9/28/92Order No: 0016358-001Customer: Intex

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.13		.15		.17		.16	
Contamination	BL	<u>6</u>	<u>3</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>2</u>	<u>3</u>
	BR	<u>3</u>	<u>2</u>	<u>7</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>6</u>
Bulk Density	.505		.511		.510		.508	
Hard Particle	5	<u>6</u>	—	—	—	—	—	—
	7	<u>135</u>	—	—	—	—	—	—
Viscosity	1.013							
RVCM	.024							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.96</u>	<u>20.43</u>	<u>14.55</u>	<u>7.15</u>	<u>3.06</u>	<u>2.07</u>	<u>.25</u>
%	<u>0.0</u>	<u>3.9</u>	<u>40.9</u>	<u>29.1</u>	<u>14.4</u>	<u>6.1</u>	<u>4.1</u>	<u>1.5</u>

Drytime: 4.9Static Flow: 0 / 8.0Avg. Microns: 179.0Color L: 100.80 a .32 b 1.19METS: 8986, 120.4%Technician: M. H. HA

VAB.0001201152

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: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73408

Ship Date: September 25, 1992

Order No.: 0016358-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.024
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
3	2	15	3

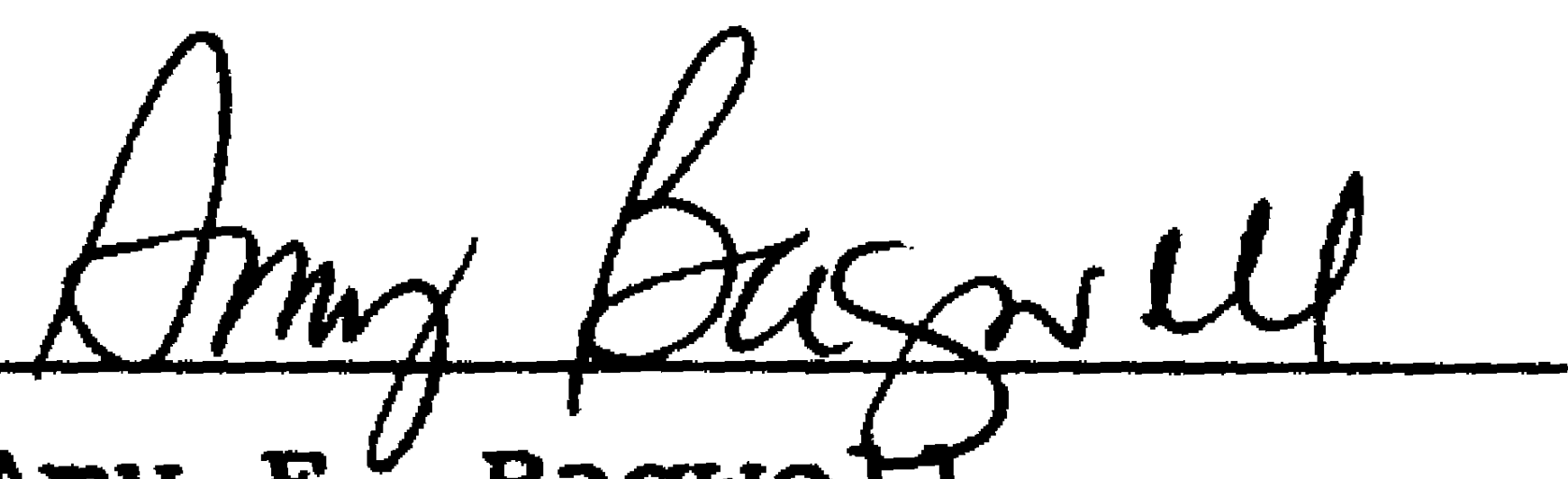
Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.510
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.2	36.4	28.9	16.7	8.1	4.5	2.2

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 4.9


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201153

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9-21-92Product: 5415Car No.: 73408Time Logged In: 0300Logged In By: Det.Silo(s): 690+691Ship Date: 9/25/92Order No: 0016358-000Customer: ~~Blawie~~ / Attey

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.13		.15		.12		.10	
Contamination	BL	<u>2</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>12</u>	<u>1</u>	<u>4</u>
	BR	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>2</u>	<u>2</u>
Bulk Density	.508		.510		.509		.512	
Hard Particle	5	<u>7</u>	—	—	—	—	—	—
	7	<u>1 JS</u>	—	—	—	—	—	—
Viscosity	1.021							
RVCM	1024							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.61</u>	<u>18.18</u>	<u>14.46</u>	<u>8.35</u>	<u>4.07</u>	<u>2.24</u>	<u>1.08</u>
%	<u>0.0</u>	<u>3.2</u>	<u>36.4</u>	<u>28.9</u>	<u>16.7</u>	<u>8.1</u>	<u>4.5</u>	<u>2.2</u>

Drytime: 4.9Static Flow: 0 / 8.1Avg. Microns: 172.8Color L: 101.09 a -1.19 b 1.36METS: 9964, 125.8%Technician: M-JA HA

VAB.0001201154

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 24, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: UTCX 46456

Ship Date: September 18, 1992

Order No.: 0015940-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
--------------------	--------	-------------	------

Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.010
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Contamination, BLK + BRN	ABR-5A	60 Total	
--------------------------	--------	----------	--

Total Black + Brown

A	CA	CB	B
23	21	17	19

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
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Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.532
---------------------	--------	------------	-------

Moisture, %	ABR-1A	0.30 Max.	0.21
-------------	--------	-----------	------

Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	
----------------------------	-------	--------------------------------------	--

% ON

40	60	80	100	120	140	200	PAN
0.00	0.6	12.9	23.2	31.7	20.8	8.2	2.6

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201155

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

Washed

PVC RAILCAR ANALYSIS

Load Date: 9-15-92 Product: 5305 Car No.: 46450 *UTCN*
 Time Logged In: 1700 Logged In By: *Pto* Silo(s): ~~618, 687, 688~~
 Ship Date: 9/18/92 Order No: 0015940-001 Customer: IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	<u>.18</u>		<u>.18</u>		<u>.21</u>		<u>.21</u>	
Contamination	BL <u>10</u>		9		6		11	
	BR <u>13</u>		12		11		8	
Bulk Density	<u>.526</u>		<u>.540</u>		<u>.536</u>		<u>.526</u>	
BD w/antistat								
Viscosity	<u>.733</u>		<u>.729</u>		<u>.727</u>		<u>.731</u>	
RVCM	<u>.010</u>		<u>.029</u>		<u>.039</u>		<u>.029</u>	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>8/15</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.31</u>	<u>6.45</u>	<u>11.60</u>	<u>15.93</u>	<u>10.40</u>	<u>4.08</u>	<u>1.28</u>
%	<u>0.0</u>	<u>0.6</u>	<u>12.9</u>	<u>23.2</u>	<u>31.7</u>	<u>20.8</u>	<u>8.2</u>	<u>2.6</u>

Avg. Microns: 143.1% Glassies: 41%Color L: 9860 a 0.28 b 2.08Static Flow: 0 / 81Technician: *Pto + HDL*

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A

CERTIFICATE OF ANALYSIS

Date: September 22, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73384

Ship Date: September 15, 1992

Order No.: 0016012-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.80
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.135
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

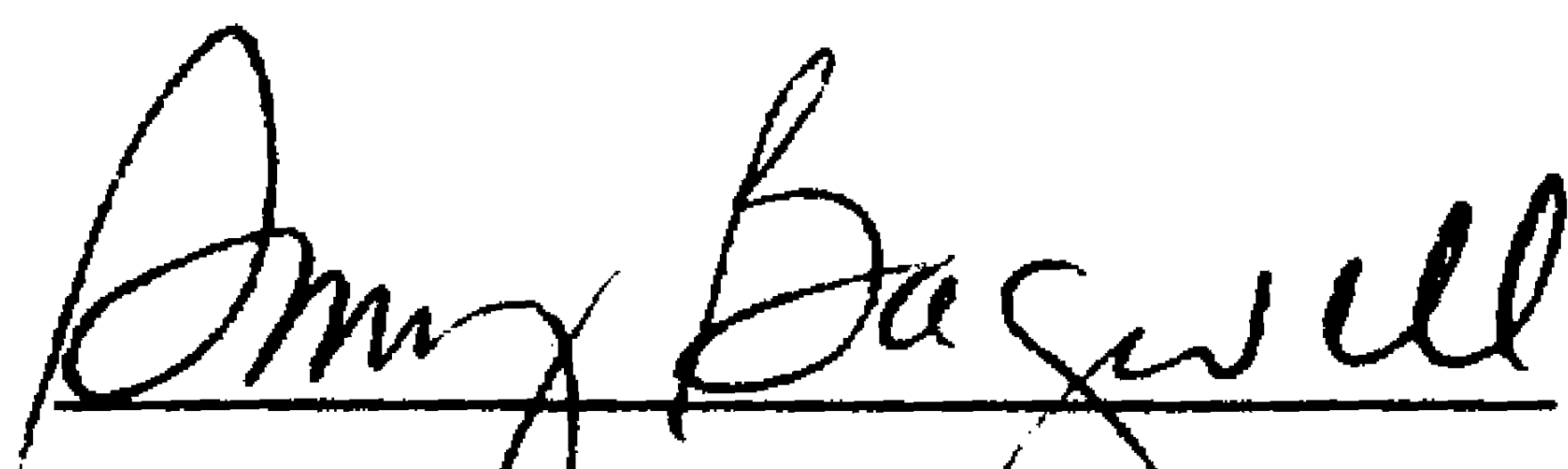
A	CA	CB	B
9	14	9	10

Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.3
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.516
Moisture, %	ABR-1A	0.30 Max.	0.30
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	13.7	27.0	33.1	17.2	5.8	2.9

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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VAB.0001201157

PVC RAILCAR ANALYSIS

Load Date: 9-13-92 Product: 5325 Car No.: 73384
 Time Logged In: 1600 Logged In By: M.T Silo(s): 685-
 Ship Date: 9/15/92 Order No: 0016012-000 Customer: IPC ~~Chromas~~

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.30		.28		.30	
Contamination	BL		4		2		3	
	BR		10		7		7	
Bulk Density	.506		.570		.500		.546	
BD w/antistat								
Viscosity	.796		.795		.790		.796	
RVCM	.093		.090		.135		.007	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			

Screen Analysis

H.P. 6/3

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.13</u>	<u>6.86</u>	<u>13.48</u>	<u>16.80</u>	<u>8.60</u>	<u>2.92</u>	<u>1.45</u>
%	<u>0.0</u>	<u>0.3</u>	<u>13.7</u>	<u>27.0</u>	<u>33.1</u>	<u>17.2</u>	<u>5.8</u>	<u>2.9</u>

Static Flow: 0 19.3Avg. Microns: 145.8GLASSY <1% Color L: 100.61 a 0.17 b 1.20CPA 25.3Technician: D.T. + HDL

Vista Polymers
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CERTIFICATE OF ANALYSIS

Date: September 22, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5325

Attention: Quality Control Dept.

Railcar No.: UTCX 46519

Ship Date: September 16, 1992

Order No.: 0016097-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	0.80
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.080
Contamination, BLK + BRN	ABR-5A	Not Yet Determined	

Total Black + Brown

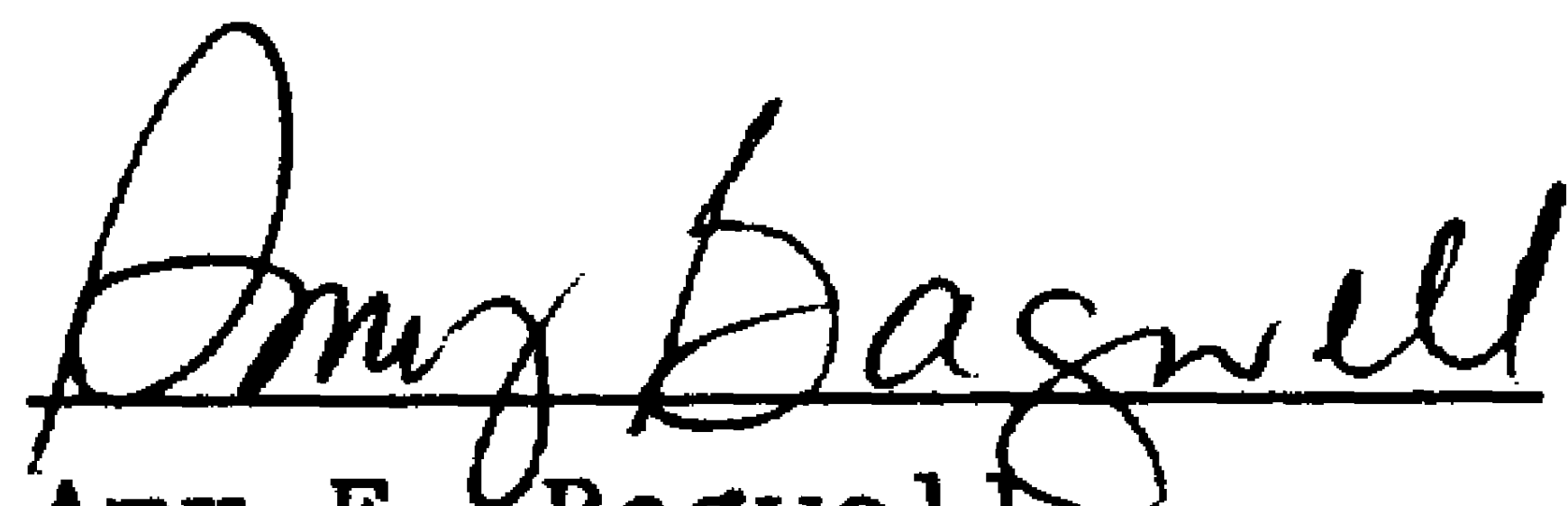
A	CA	CB	B
7	13	8	8

Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.8
Bulk Density, gm/cc	ABR-2A	0.480 Min.	0.501
Moisture, %	ABR-1A	0.30 Max.	0.30
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.2	16.4	29.6	32.5	14.3	4.3	2.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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PVC RAILCAR ANALYSIS

Load Date: 9-14-92Product: 5325Car No.: 46519Time Logged In: 0630Logged In By: MSSilo(s): 685Ship Date: 9/16Order No: 0016097000Customer: IPCNo metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	<u>.30</u>		<u>.30</u>		<u>.23</u>		<u>.27</u>	
Contamination	BL <u>2</u>		4		3		4	
	BR <u>5</u>		9		5		4	
Bulk Density	<u>.572</u>		<u>.573</u>		<u>.486</u>		<u>.492</u>	
BD w/antistat								
Viscosity	<u>.798</u>		<u>.795</u>		<u>.783</u>		<u>.794</u>	
RVCM	<u>.080</u>		<u>.078</u>		<u>.003</u>		<u>.091</u>	

Screen Analysis

H.P. 5%

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.12</u>	<u>8.22</u>	<u>14.80</u>	<u>16.16</u>	<u>7.15</u>	<u>2.13</u>	<u>1.33</u>
%	<u>0.00</u>	<u>0.2</u>	<u>16.4</u>	<u>29.6</u>	<u>32.5</u>	<u>14.3</u>	<u>4.3</u>	<u>2.7</u>

CPA: 25.4% Glassies: <1%Avg. Microns: 149.7Color L: 100.23 a 0.12 b 1.26Static Flow: 0.98Technician: DTAHL

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A

CERTIFICATE OF ANALYSIS

Date: September 15, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: VIPX 45719

Ship Date: September 11, 1992

Order No.: 0015940-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.043
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

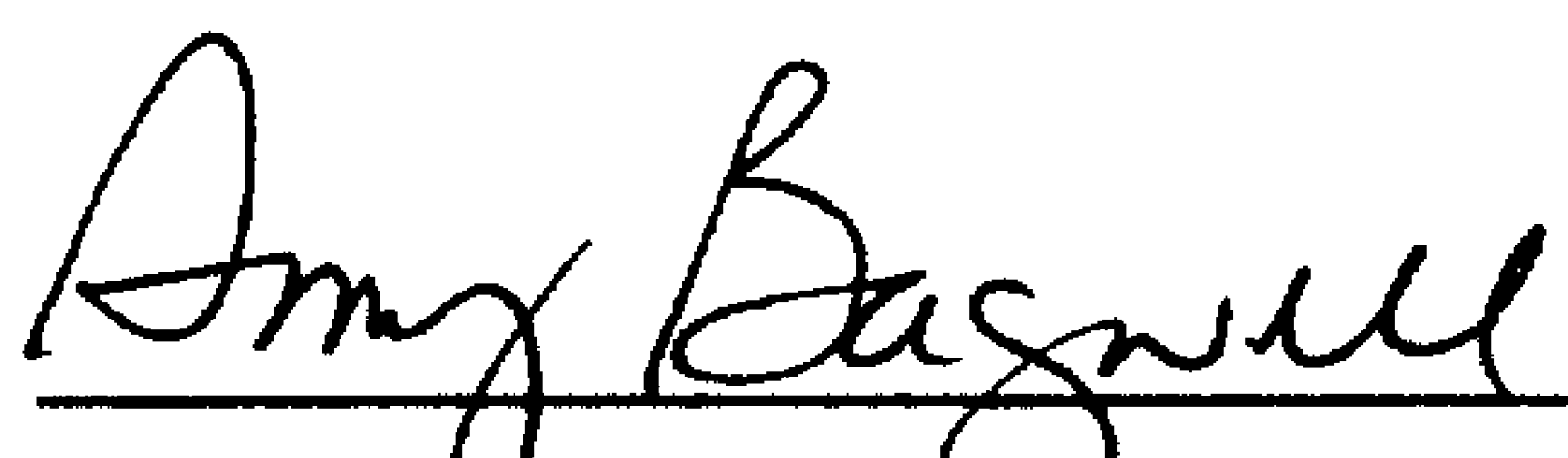
A	CA	CB	B
7	6	9	10

Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.7
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.527
Moisture, %	ABR-1A	0.30 Max.	0.06
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	12.4	24.4	31.8	19.6	8.3	3.2

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9/2/92 Product: 5305 Car No.: 4579
 Time Logged In: 1600 Logged In By: ADJ Silo(s): 680/688
 Ship Date: 9/11/92 Order No: 15940-000 Customer: IPC/Union Carbide

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.04		.04		.05		.06	
Contamination	BL <u>3</u>	—	3	—	4	—	3	—
	BR <u>4</u>		3		5		7	
Bulk Density	.523		.520		.530		.537	
BD w/antistat								
Viscosity	.731		.725		.731		.728	
RVCM	.043		.057		.033		.025	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>4/7</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.17</u>	<u>6.18</u>	<u>12.22</u>	<u>16.09</u>	<u>9.80</u>	<u>4.14</u>	<u>1.6</u>
% P	<u>0.0</u>	<u>.3</u>	<u>12.4</u>	<u>24.4</u>	<u>31.8</u>	<u>19.6</u>	<u>8.3</u>	<u>3.2</u>

Avg. Microns: 142.1% Glassies: 41%Color L: 99.37 a 0.37 b 1.85Static Flow: 0 17.7Technician: MIT & KH

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CERTIFICATE OF ANALYSIS

Date: September 10, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73398

Ship Date: September 8, 1992

Order No.: 0015697-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.015
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
10	7	6	6

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	7.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.580
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

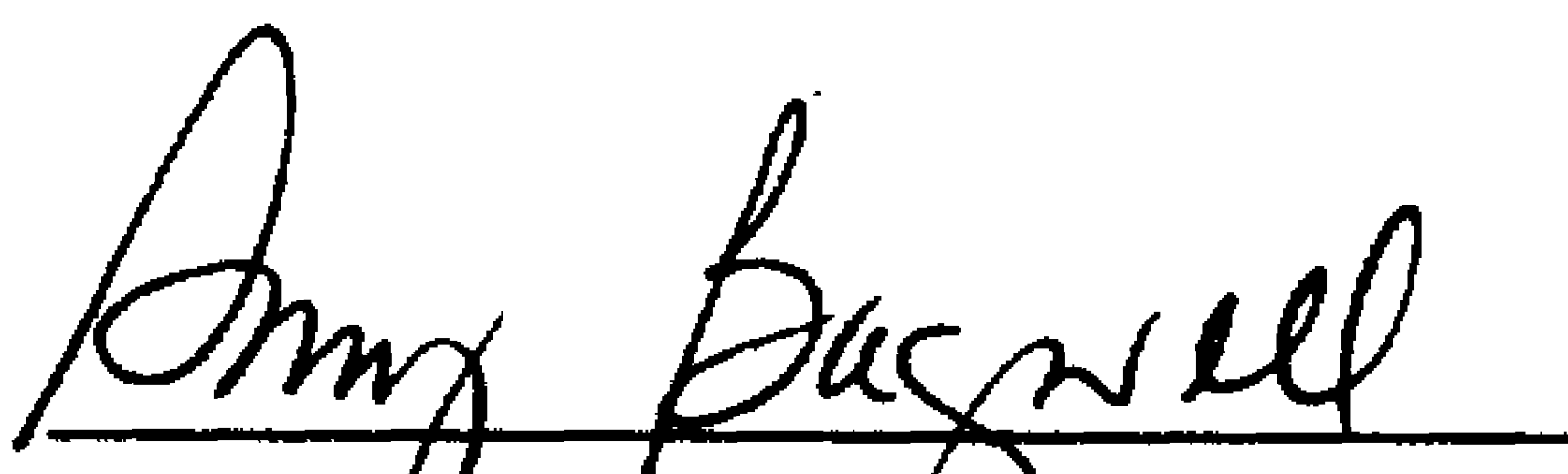
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	3.5	30.0	25.4	18.1	11.1	9.0	2.9

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
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VAB.0001201163

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 9-6-92Product: 5385Car No.: 73398Time Logged In: 0900Logged In By: P.T.O.Silo(s): 676+677Ship Date: 9/8Order No: 15697-000Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.15		.13		.10	
Contamination	BL 6	—	5	—	2	—	3	—
	BR 4	—	2	—	4	—	3	—
Bulk Density	.579		.582		.579		.578	
BD after Fluff								
Hard Particle	5 12	—	—	—	—	—	—	—
	7 2.00	—	—	—	—	—	—	—
Viscosity	.928							
RVCM	.015							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.75</u>	<u>15.01</u>	<u>12.71</u>	<u>9.20</u>	<u>5.57</u>	<u>4.48</u>	<u>1.45</u>
%	<u>0.0</u>	<u>3.5</u>	<u>30.0</u>	<u>25.4</u>	<u>18.1</u>	<u>11.14</u>	<u>9.0</u>	<u>2.9</u>

Drytime: 5.0Static Flow: 0 / 7.9Avg. Microns: 164.1Color L: 100.63 a -11 b 1.74Technician: MA + HA

VAB.0001201164

Vista Polymers
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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: September 10, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45704

Ship Date: September 8, 1992

Order No.: 0015061-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.058
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
6	3	9	9

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

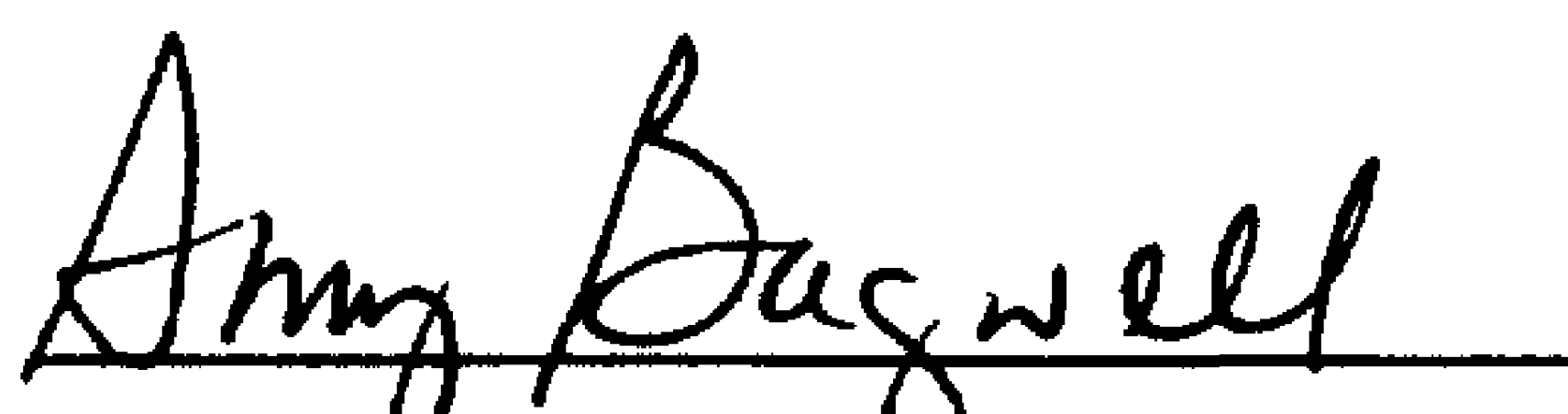
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.5	26.5	26.2	19.7	12.6	9.8	2.7

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
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VAB.0001201165

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 9-7-92 Product: 5385 Car No.: 45704
 Time Logged In: 0900 Logged In By: D.J. Silo(s): 676
 Ship Date: 9/8 Order No: 15061-003 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.12		.14	
Contamination	BL							
	BR							
Bulk Density	.582		.579		.583		.580	
BD after Fluff								
Hard Particle 5	12							
7	3MS							
Viscosity	.923							
RVCM	.058							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.24</u>	<u>13.27</u>	<u>13.09</u>	<u>9.93</u>	<u>6.29</u>	<u>4.88</u>	<u>1.35</u>
%	<u>0.0</u>	<u>2.5</u>	<u>26.5</u>	<u>26.2</u>	<u>19.7</u>	<u>12.6</u>	<u>9.8</u>	<u>2.7</u>

Drytime: 50 Static Flow: 0 / 8.1 Avg. Microns: 159.1

Color L: 100.18 a .07 b 2.41

Technician: MA + HA

VAB.0001201166

Vista Polymers
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CERTIFICATE OF ANALYSIS

Date: September 4, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41174

Ship Date: September 1, 1992

Order No.: 0014855-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.029
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
2	4	10	8

Hard Particles • 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	8.2
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.580
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

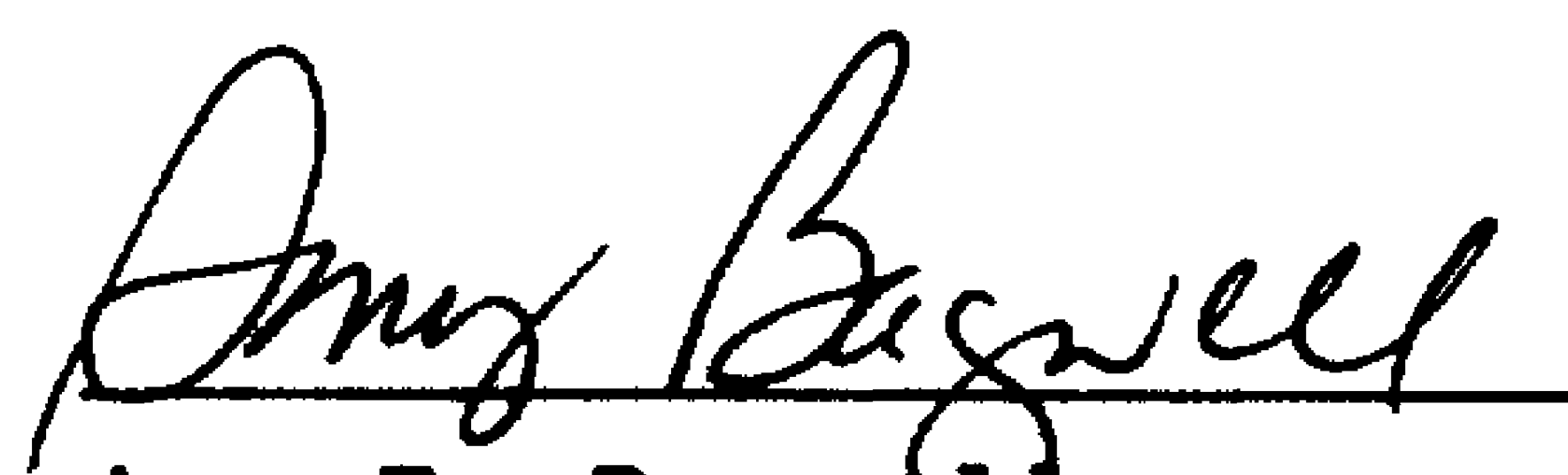
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	4.9	31.0	24.5	17.8	10.7	8.4	2.7

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
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VAB.0001201167

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-31-92 Product: 5385 Car No.: 41174
 Time Logged In: 1700 Logged In By: J.T. Silo(s): 676+685
 Ship Date: 9/1 Order No: 14855-003 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.12		.13		.15	
Contamination	BL		3		6		6	
	BR	1	1		4		2	
Bulk Density	.585		.580		.576		.577	
BD after Fluff								
Hard Particle 5	18							
7	3 HA							
Viscosity	.928							
RVCM	.029							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.47</u>	<u>15.52</u>	<u>12.26</u>	<u>8.88</u>	<u>5.34</u>	<u>4.21</u>	<u>1.37</u>
%	<u>0.0</u>	<u>4.9</u>	<u>31.0</u>	<u>24.5</u>	<u>17.8</u>	<u>10.7</u>	<u>8.4</u>	<u>2.7</u>

Drytime: 5-0 Static Flow: 0 / 8.2 Avg. Microns: 167.9

Color L: 100.62 a .08 b 1.79

Technician: MM + HA

VAB.0001201168

Vista Polymers
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Aberdeen, Mississippi 39730-0091
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CERTIFICATE OF ANALYSIS

Date: September 4, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41141

Ship Date: September 3, 1992

Order No.: 0014855-004

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.065
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	10	11	15

Hard Particles ● 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	9.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.584
Moisture, %	ABR-1A	0.30 Max.	0.11
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

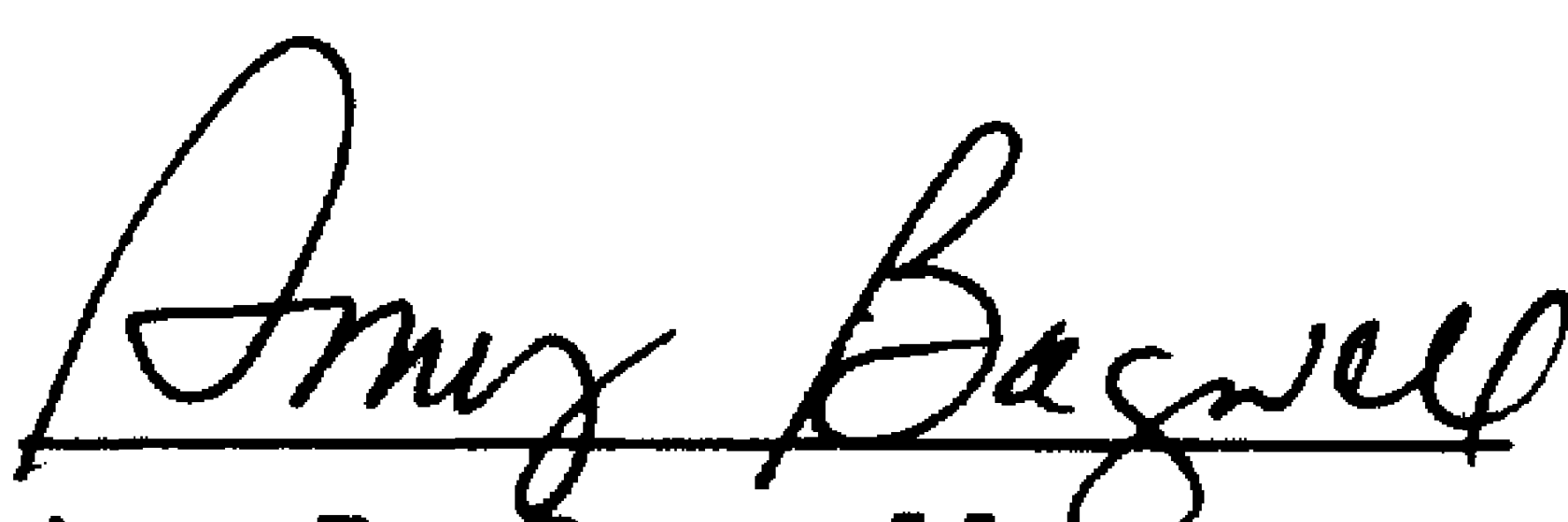
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.7	23.9	27.3	21.4	13.3	9.6	2.8

Brabender Dry Time, Mins. ABR-7 6.0 Max. 4.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
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Viata Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 9/2/92 Product: 5385 Car No.: 41141
 Time Logged In: 1600 Logged In By: AKL Silo(s): 676/77/85
 Ship Date: 9/3/92 Order No: 14855-004 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.04		.11		.03	
Contamination	BL							
	BR							
	<u>3</u>	—	<u>4</u>	—	<u>2</u>	—	<u>4</u>	—
	<u>5</u>		<u>6</u>		<u>8</u>		<u>11</u>	
Bulk Density	.581		.589		.580		.584	
BD after Fluff								
Hard Particle 5	<u>18</u>	—	—	—	—	—	—	—
7	<u>3 DCL</u>							
Viscosity	.921							
RVCM	.065							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>00</u>	<u>.83</u>	<u>11.93</u>	<u>1363</u>	<u>1090</u>	<u>6.65</u>	<u>4.82</u>	<u>1.41</u>
% P	<u>0.0</u>	<u>1.7</u>	<u>23.9</u>	<u>27.3</u>	<u>21.4</u>	<u>13.3</u>	<u>9.6</u>	<u>2.8</u>

Drytime: 4.7 Static Flow: 0.19.4 Avg. Microns: 155.6

Color L: 100.31 a 0.15 b 1.98

Technician: MJ & KH

VAB.0001201170

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: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: UTCX 46436

Ship Date: August 28, 1992

Order No.: 0014852-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.016
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

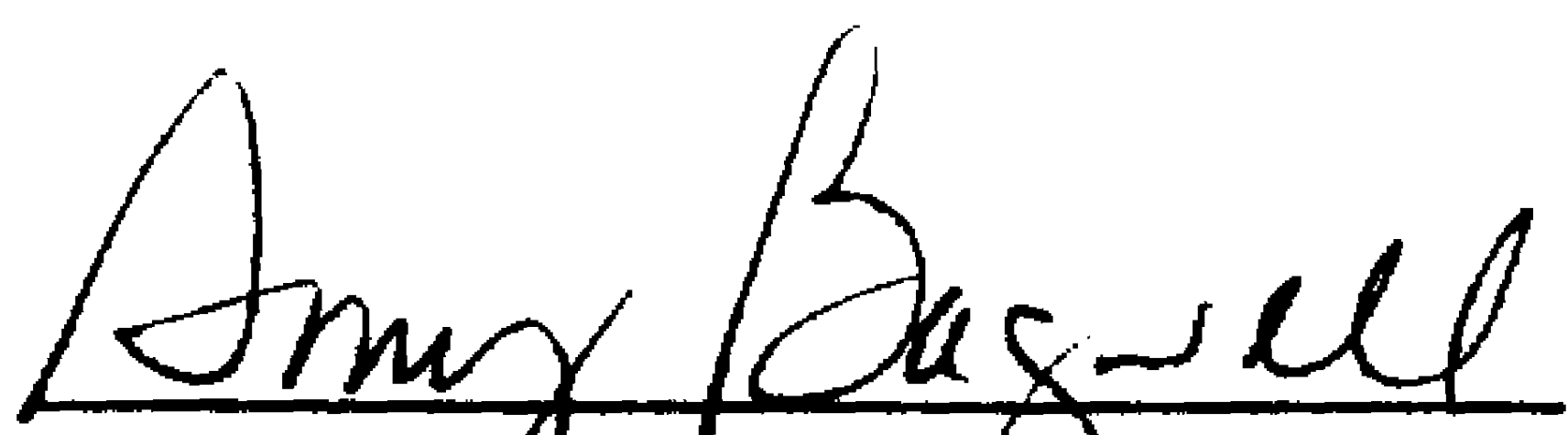
A	CA	CB	B
19	10	35	8

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.5
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.521
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.1	8.4	21.4	32.4	23.4	11.5	2.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201171

PVC RAILCAR ANALYSIS

Load Date: 8-19-92Product: 5305Car No.: 46436Time Logged In: 0500Logged In By: M.TSilo(s): 687Ship Date: 8/28/92Order No: 14852-002Customer: IPC/Btane*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.13		.11		.15		.10	
Contamination	BL		8				6	
	BR		2				2	
Bulk Density	.519		.522		.524		.520	
BD w/antistat								
Viscosity	.734		.734		.736		.731	
RVCM	.016		.061		.090		.100	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/2							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.05</u>	<u>4.21</u>	<u>10.72</u>	<u>16.11</u>	<u>11.72</u>	<u>5.77</u>	<u>1.38</u>
%	<u>0.0</u>	<u>.1</u>	<u>8.4</u>	<u>21.4</u>	<u>32.4</u>	<u>23.4</u>	<u>11.5</u>	<u>2.8</u>

Avg. Microns: 135.9% Glassies: ~~10~~ < 1%Color L: 99.62 a .35 b 1.62 Static Flow: 0 / 8.5Technician: M J + M B

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS OFFGRADE

Tops?

Load Date: _____ Product: 5305 Car No.: _____

Time Logged In: _____ Logged In By: _____ Silo(s): _____

Ship Date: _____ Order No: _____ Customer: _____

COMPARTMENT	A		CA		CB		B	
Moisture %								
Contamination	/		/		/		/	
Bulk Density								
Color "L"								
Color "a"								
Color "b"								
Static Flow	/		/		/		/	
Viscosity	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
RVCM								

Screen Analysis

	Mesh	40	60	80	100	120	140	200	Pan
A	Weight	<u>0.00</u>	<u>0.22</u>	<u>2.08</u>	<u>6.49</u>	<u>12.98</u>	<u>14.50</u>	<u>11.94</u>	<u>2.01</u>
	%	<u>0.0</u>	<u>0.0</u>	<u>4.2</u>	<u>13.0</u>	<u>25.9</u>	<u>29.0</u>	<u>23.9</u>	<u>4.0</u>
CA	Weight	<u>0.00</u>	<u>0.09</u>	<u>6.04</u>	<u>12.36</u>	<u>16.00</u>	<u>9.72</u>	<u>4.29</u>	<u>1.65</u>
	%	<u>0.0</u>	<u>0.2</u>	<u>12.1</u>	<u>24.7</u>	<u>30.7</u>	<u>19.4</u>	<u>9.6</u>	<u>3.3</u>
CB	Weight	<u>0.00</u>	<u>0.03</u>	<u>3.92</u>	<u>9.45</u>	<u>15.53</u>	<u>13.02</u>	<u>6.80</u>	<u>1.20</u>
	%	<u>0.0</u>	<u>0.1</u>	<u>7.8</u>	<u>19.0</u>	<u>31.1</u>	<u>26.0</u>	<u>13.6</u>	<u>2.4</u>
B	Weight	<u>0.00</u>	<u>0.07</u>	<u>4.12</u>	<u>9.62</u>	<u>16.18</u>	<u>13.21</u>	<u>5.93</u>	<u>0.96</u>
	%	<u>0.0</u>	<u>0.1</u>	<u>8.2</u>	<u>19.2</u>	<u>32.3</u>	<u>26.4</u>	<u>11.9</u>	<u>1.9</u>

Technician: MDG

VAB.0001201173

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
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Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: September 2, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45772

Ship Date: August 31, 1992

Order No.: 0015061-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.145
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
5	9	12	12

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.5	25.2	28.4	21.5	12.5	8.7	2.2

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201174

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-30-92 Product: 5385 Car No.: 45772
 Time Logged In: 1600 Logged In By: M.T Silo(s): 685
 Ship Date: 8/31 Order No: 15061-002 Customer: PLC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.11		.13		.15	
Contamination	BL							
	BR							
Bulk Density	.583		.582		.577		.580	
BD after Fluff								
Hard Particle 5	<u>18</u>							
7	<u>3 mb</u>							
Viscosity	.924							
RVCM	.145							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.74</u>	<u>12.62</u>	<u>14.20</u>	<u>10.70</u>	<u>6.24</u>	<u>4.36</u>	<u>1.12</u>
%	<u>0.0</u>	<u>1.5</u>	<u>25.2</u>	<u>28.4</u>	<u>21.5</u>	<u>12.5</u>	<u>8.7</u>	<u>2.2</u>

Drytime: 5.0 Static Flow: 0 18.1 Avg. Microns: 157.7

Color L: 100.36 a .08 b 1.72

Technician: M. H. H. H.

VAB.0001201175

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
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CERTIFICATE OF ANALYSIS

Date: September 2, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: VIPX 45839

Attention: Quality Control Dept.

Order No.: 0014854-002

Ship Date: August 31, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.227
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

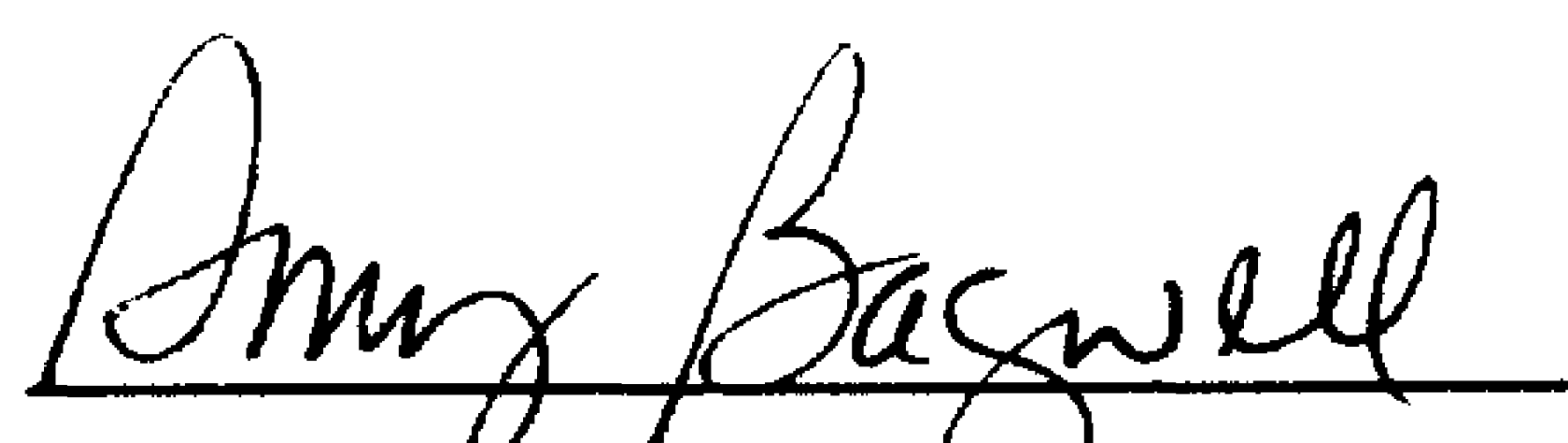
A	CA	CB	B
9	8	7	9

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.503
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.8	36.2	30.6	17.6	6.8	4.5	1.5

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


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201176

PVC RAILCAR ANALYSIS

Load Date: 8-30-92Product: 5415Car No.: 45839Time Logged In: 1600Logged In By: MTSilo(s): 690-691Ship Date: 8/31Order No: 14854-002Customer: Essex/IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.11		.13		.15	
Contamination	BL	<u>6</u>	<u>5</u>	<u>3</u>	<u>4</u>	<u>8</u>	<u>5</u>	<u>12</u>
	BR	<u>3</u>	<u>2</u>	<u>5</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>6</u>
Bulk Density	.505		.507		.500		.502	
Hard Particle	5	<u>5</u>	—	—	—	—	—	—
	7	<u>1 ms</u>	—	—	—	—	—	—
Viscosity	1.010							
RVCM	.227							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.40</u>	<u>18.12</u>	<u>15.30</u>	<u>8.21</u>	<u>3.40</u>	<u>2.23</u>	<u>.76</u>
%	<u>0.0</u>	<u>2.8</u>	<u>36.2</u>	<u>30.6</u>	<u>17.6</u>	<u>6.8</u>	<u>4.5</u>	<u>1.5</u>

Drytime: 5.0Static Flow: 0 / 8.1Avg. Microns: 173.3Color L: 101.10 a -.06 b 1.43METS: 9164, 128.6 %Technician: MTYHHA

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: August 31, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73393

Ship Date: August 26, 1992

Order No.: 0015061-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
Residual VCM, ppm	ABGC-26	8.5 Max.	0.092
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
13	14	6	14

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	7.7
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.572
Moisture, %	ABR-1A	0.30 Max.	0.14
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

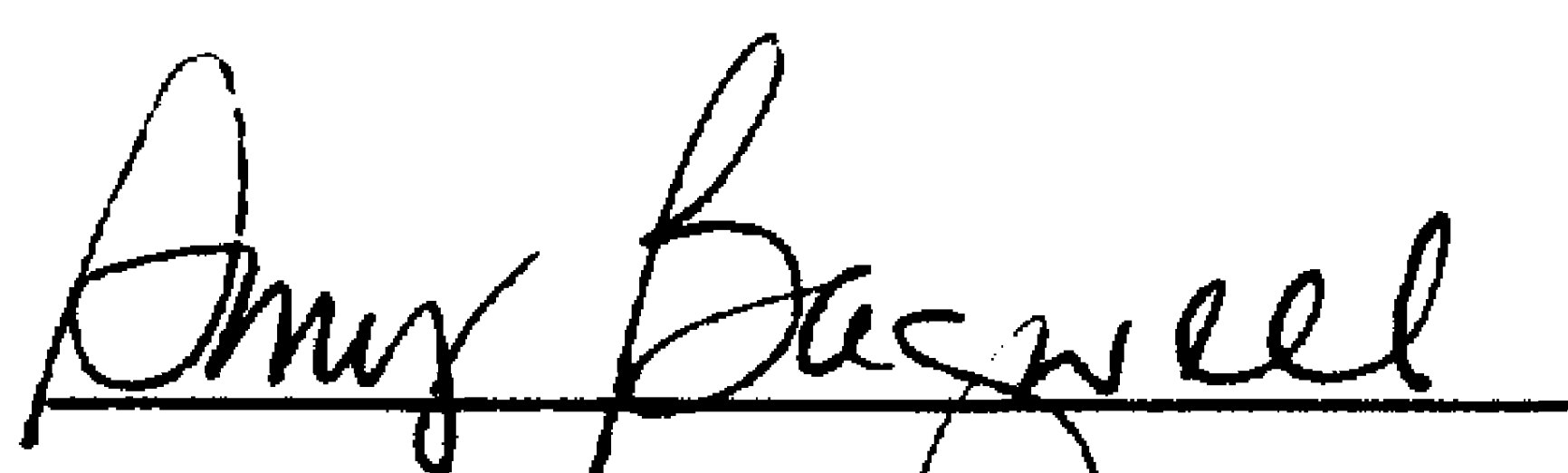
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	3.6	32.4	27.3	17.8	9.7	7.0	2.2

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201178

A

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-24-92

Product: 5385

Car No.: 73393

Time Logged In: 0900

Logged In By: DT.

Silo(s): 676, 677, 685

Ship Date: 8/26/

Order No: 15061-001

Customer: ~~676~~
IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.11		.10		.10	
Contamination	BL							
	BR							
	$\frac{9}{4}$	—	$\frac{9}{5}$	—	$\frac{5}{1}$	—	$\frac{12}{2}$	—
Bulk Density	.571		.573		.572		.573	
BD after Fluff				—				
Hard Particle 5	$\frac{14}{2}$	—	—	—	—	—	—	—
7	JS							
Viscosity	.939							
RVCM	.092							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.80</u>	<u>16.18</u>	<u>13.67</u>	<u>8.92</u>	<u>4.86</u>	<u>3.48</u>	<u>1.10</u>
%	<u>0.0</u>	<u>3.6</u>	<u>32.4</u>	<u>27.3</u>	<u>17.8</u>	<u>9.7</u>	<u>7.0</u>	<u>2.2</u>

Drytime: 5.0

Static Flow: 0 / 7.7

Avg. Microns: 168.6

Color L: 100.29 a .10 b 1.84

Technician: MJ + HA

VAB.0001201179

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: August 31, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46592

Ship Date: August 25, 1992

Order No.: 0014854-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.001
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
14	13	17	14

Hard Particles • 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.510
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.9	36.4	26.9	15.8	8.4	6.4	2.2

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


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201180

Vista Polymers

Highway 25

Aberdeen, MS 39730

no d/o

A

PVC RAILCAR ANALYSIS

Load Date: 8-23-92 Product: 5415 Car No.: 46592
 Time Logged In: 1800 Logged In By: EL Silo(s): 690, 691
 Ship Date: 8/25/92 Order No: 14854-001 Customer: IPC/

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.15		.11		.10	
Contamination	BL	10	10	6	13	8	9	3
	BR	5	3	4	4	5	5	2
Bulk Density	.510		.507		.511		.513	
Hard Particle	5	3						
	7	168						
Viscosity	1.010							
RVCM	.001							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.97</u>	<u>18.20</u>	<u>13.47</u>	<u>7.88</u>	<u>4.18</u>	<u>3.18</u>	<u>1.11</u>
%	<u>0.0</u>	<u>3.9</u>	<u>36.4</u>	<u>26.9</u>	<u>15.8</u>	<u>8.4</u>	<u>6.4</u>	<u>2.2</u>

Drytime: 4.9 Static Flow: 0 / 8.2 Avg. Microns: 172.7

Color L: 101.14 a .03 b 1.46

METS: 9620, 121.1 %

Technician: MSA HA

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: August 26, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: UTCX 46576

Ship Date: August 21, 1992

Order No.: 0014852-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.72
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.035
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

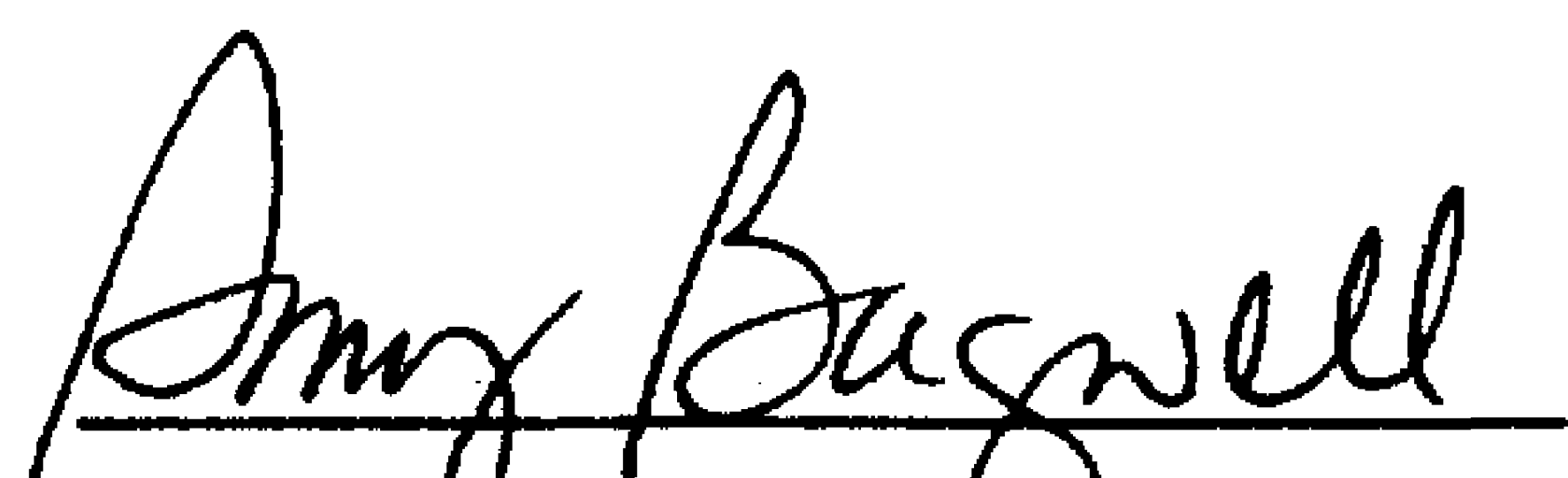
A	CA	CB	B
8	10	11	8

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.518
Moisture, %	ABR-1A	0.30 Max.	0.11
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.4	13.9	28.0	32.5	16.2	6.3	2.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201182

Vista Polymers

Highway 25

Aberdeen, MS 39730

Last Cont. 5265
PVC RAILCAR ANALYSIS

Load Date: 6-25-92Product: 5305Car No.: 46576Time Logged In: 1700Logged In By: 6Silo(s): 680Ship Date: 8/21/92Order No: 14852-001Customer: IPC/Union

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.08		.11		.11		.09	
Contamination	BL BR	<u>3</u> <u>5</u>	—	<u>6</u> <u>4</u>	—	<u>4</u> <u>7</u>	—	<u>5</u> <u>3</u>
Bulk Density		.517		.519		.520		.518
BD w/antistat								
Viscosity		.721		.708		.721		.724
RVCM		.035		.043		.044		.031
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>3/5</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.22</u>	<u>6.95</u>	<u>14.02</u>	<u>16.21</u>	<u>8.08</u>	<u>3.15</u>	<u>1.37</u>
%	<u>0.0</u>	<u>0.4</u>	<u>13.9</u>	<u>28.0</u>	<u>32.5</u>	<u>16.2</u>	<u>6.3</u>	<u>2.7</u>

Avg. Microns: 146.6% Glassies: 21%Color L: 99.56 a 0.49 b 1.65Static Flow: 0 / 8.1Technician: HA + RH

TO AMY (601)369-3642
RAILCAR SHIPMENT ORDER TO DIVERT/RE-SHIP/RETURN

DATE: 10/6

RAILCAR NUMBER: PLWX44461

ORIGINAL SHIP DATE: 8/24

ORIGINAL ORIGIN PLANT: ABD

ORIGINAL PRODUCT WEIGHT: 179,350

PRODUCT NAME & CODE: 5385, 10790

ORIGINAL CUSTOMER: IPC

ORIGINAL CUSTOMER LOCATION: Corinth, MS

ORIGINAL ORDER NUMBER: 0014855-002-

NEW CUSTOMER: ABD

NEW LOCATION: Aberdeen, MS

NEW ORDER NUMBER:

DO YOU NEED RAILCAR RE-WEIGHED? (YES/NO) Yes

REASON FOR CHANGE: (EG. OFF-SPEC, ETC.) off-spec

CAR RELEASED (YES/NO): Yes

BILLING INSTRUCTIONS MUST BE COMMUNICATED TO RAIL FREIGHT & CONTRACTS
FOR ISSUING BILL OF LADING ON OR BEFORE THE DAY THE CAR IS RELEASED.

OTHER COMMENTS: Replaced by 0015697-000

CUSTOMER SERVICE REPRESENTATIVE: Reship Expert
Carol M. Loop

DISTRIBUTION: PLANT, HOUSTON - RAIL FREIGHT & CONTRACTS, HOUSTON - RAIL OPERATIONS

FC492

VAB.0001201184

CERTIFICATE OF ANALYSIS

Date: August 26, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PLWX 44461

Ship Date: August 24, 1992

Order No.: 0014855-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.052
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	19	8	25

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.576
Moisture, %	ABR-1A	0.30 Max.	0.09
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

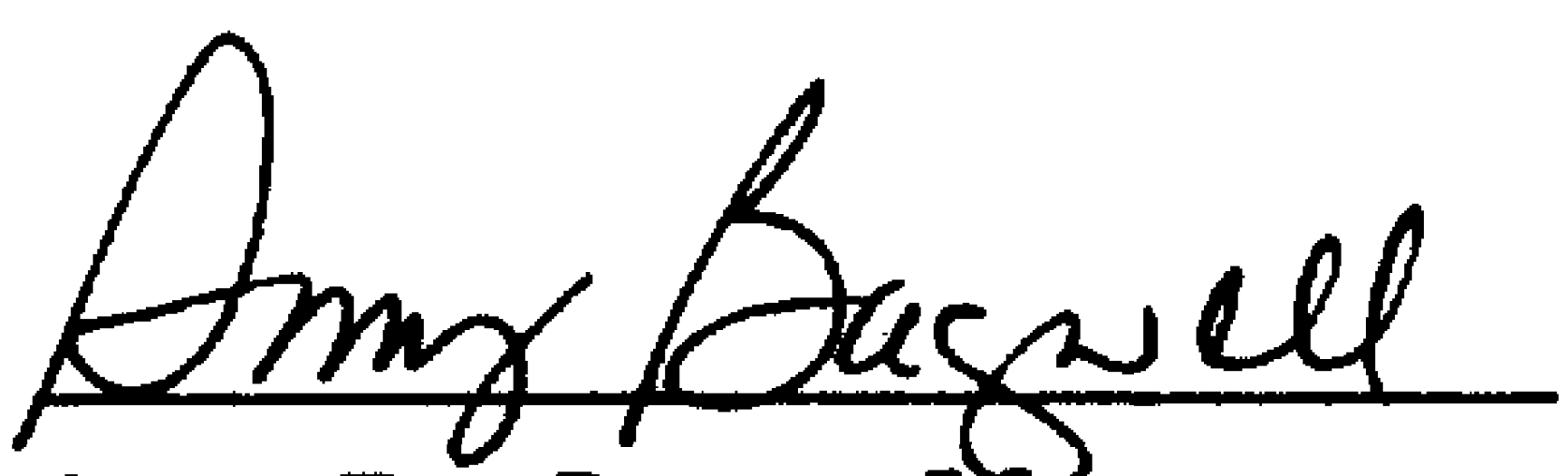
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.7	27.9	27.6	19.9	11.3	8.2	2.4

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201185

CERTIFICATE OF ANALYSIS

Date: August 26, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41175

Ship Date: August 21, 1992

Order No.: 0015061-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.057
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
12	14	6	6

Hard Particles @ 7 Mins.	ABR-12	15 Max.	4
Dry Flow, Seconds	ABR-8	15 Max.	8.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.589
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

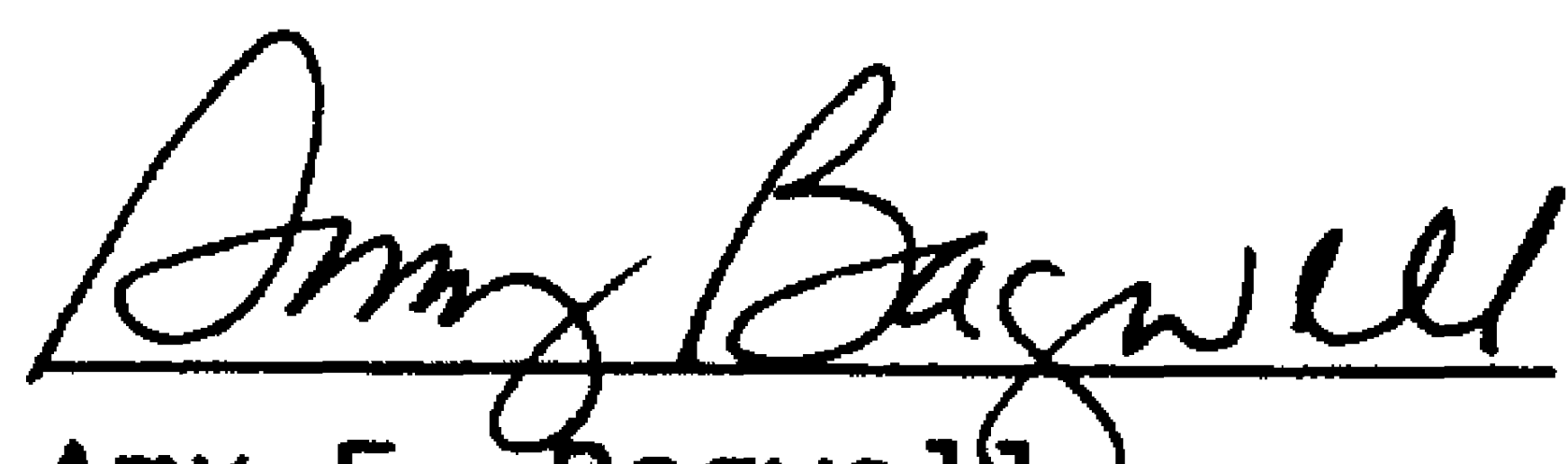
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.3	28.0	27.2	19.9	11.7	8.5	2.4

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201186

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-19-92 Product: 5385 Car No.: 41175
 Time Logged In: 0500 Logged In By: M.T Silo(s): 685-677-676
 Ship Date: 8/21 Order No: 15061-000 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.10		.12	
Contamination	BL							
	BR							
Bulk Density	.589		.590		.587		.588	
BD after Fluff								
Hard Particle 5	7							
7	4 RP.							
Viscosity	.931							
RVCM	.057							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.16</u>	<u>13.98</u>	<u>13.60</u>	<u>9.82</u>	<u>5.87</u>	<u>4.23</u>	<u>1.20</u>
%	<u>0.0</u>	<u>2.3</u>	<u>28.0</u>	<u>27.2</u>	<u>19.9</u>	<u>11.7</u>	<u>8.5</u>	<u>2.4</u>

Drytime: 4.9 Static Flow: 0 / 8.0 Avg. Microns: 161.2

Color L: 100.50 a .10 b 1.68

VAB.0001201187

Technician: MD+MB

Vista Polymers
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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: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: PLWX 44668

Ship Date: August 17, 1992

Order No.: 0014854-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.036
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
11	13	10	9

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.4
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.514
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	4.1	37.7	26.1	13.6	7.1	6.5	4.9

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



Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201188

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-15-92Product: 5415Car No.: 44668Time Logged In: 0630Logged In By: MSSilo(s): 690, 691Ship Date: 8/17Order No: 14854-000Customer: Blane Int'l

NO Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.11		.13		.07		.16	
Contamination ^{BL} BR	$\frac{3}{8}$	$\frac{2}{5}$	$\frac{4}{9}$	$\frac{3}{7}$	$\frac{2}{8}$	$\frac{4}{5}$	$\frac{3}{6}$	$\frac{2}{7}$
Bulk Density	.495		.531		.505		.525	
Hard Particle ⁵ 7	$\frac{2.35}{1}$	—	—	—	—	—	—	—
Viscosity	1.024							
RVCM	.036							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.05</u>	<u>18.77</u>	<u>13.07</u>	<u>7.07</u>	<u>3.56</u>	<u>3.23</u>	<u>2.47</u>
% P	<u>0.0</u>	<u>4.1</u>	<u>37.7</u>	<u>26.1</u>	<u>13.6</u>	<u>7.1</u>	<u>6.5</u>	<u> </u>

Drytime: 4.8Static Flow: 0 / 9.8Avg. Microns: 171.4Color L: 100.84 a 0.02 b 1.33METS: 9457 129.6 %Technician: MT & RH, JS

VAB.0001201189

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: August 20, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: ACFX 55814

Ship Date: August 14, 1992

Order No.: 0014852-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.72
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.015
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

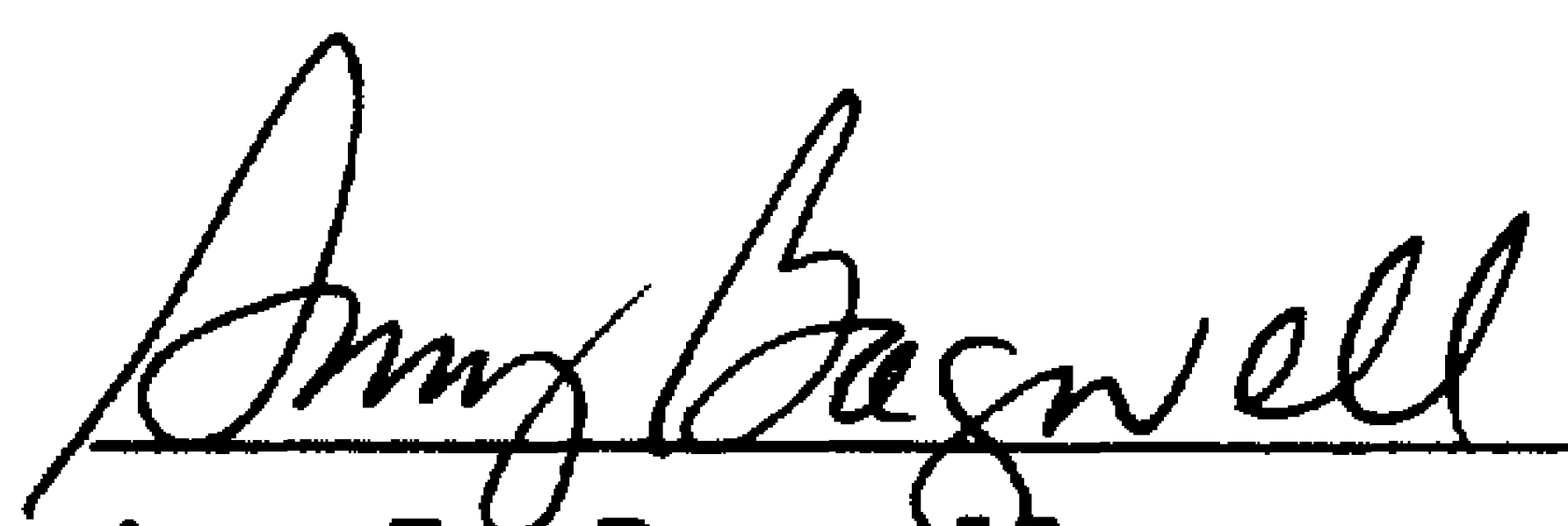
A	CA	CB	B
11	11	10	12

Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.527
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	14.3	27.2	31.1	17.1	7.4	2.6

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201190

Vista Polymers

Highway 25

Aberdeen, MS 39730 A

Last Cont 5385

PVC RAILCAR ANALYSIS

Load Date: 6-14-92Product: 5305Car No.: 55814Time Logged In: 0330Logged In By: D.T.Silo(s): 678, 688Ship Date: 8/14Order No: 14852-000Customer: 1PC/4in./BL/Perm*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.13		.11		.15		.10	
Contamination	BL	<u>9</u>	<u>8</u>	<u>8</u>	<u>10</u>			
	BR	<u>2</u>	<u>3</u>	<u>2</u>	<u>2</u>			
Bulk Density	.528		.525		.526		.530	
BD w/antistat								
Viscosity	.721		.725		.719		.724	
RVCM	.015		.069		.090		.061	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>3/2</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.16</u>	<u>7.17</u>	<u>13.60</u>	<u>15.66</u>	<u>8.55</u>	<u>3.68</u>	<u>1.32</u>
%	<u>0.0</u>	<u>.3</u>	<u>14.3</u>	<u>27.2</u>	<u>31.1</u>	<u>17.1</u>	<u>7.4</u>	<u>2.6</u>

Avg. Microns: 145.8% Glassies: <1%Color L: 99.96 a .42 b 1.42Static Flow: 0 / 7.9Technician: MDA HA

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: August 20, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41138

Ship Date: August 19, 1992

Order No.: 0014855-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.022
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
11	11	13	18

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.8
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.588
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.5	30.2	26.7	19.6	11.2	7.7	2.1

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201192

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-18-92Product: 5385Car No.: 41138Time Logged In: 0100Logged In By: M.T.Silo(s): 676-677-685Ship Date: 8/19Order No: 14855-001Customer: InterNO MAN L

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.15		.15		.17	
Contamination	BL		7		5		9	
	BR		4		8		9	
Bulk Density	.598		.588		.583		.582	
BD after Fluff								
Hard Particle 5	8							
7	2 P.A.							
Viscosity	.934							
RVCM	.022							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.25</u>	<u>15.10</u>	<u>13.35</u>	<u>9.62</u>	<u>5.61</u>	<u>3.85</u>	<u>1.04</u>
%	<u>0.00</u>	<u>2.5</u>	<u>30.2</u>	<u>26.7</u>	<u>19.6</u>	<u>10.2</u>	<u>7.7</u>	<u>2.1</u>

Drytime: 5.0Static Flow: 0 18.8Avg. Microns: 164.0Color L: 100.46 a 0.05 b 1.86Technician: D.T.H.D.L

VAB.0001201193

CERTIFICATE OF ANALYSIS

Date: August 20, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73384

Ship Date: August 18, 1992

Order No.: 0014855-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.142
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
12	18	18	16

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.8
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.587
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

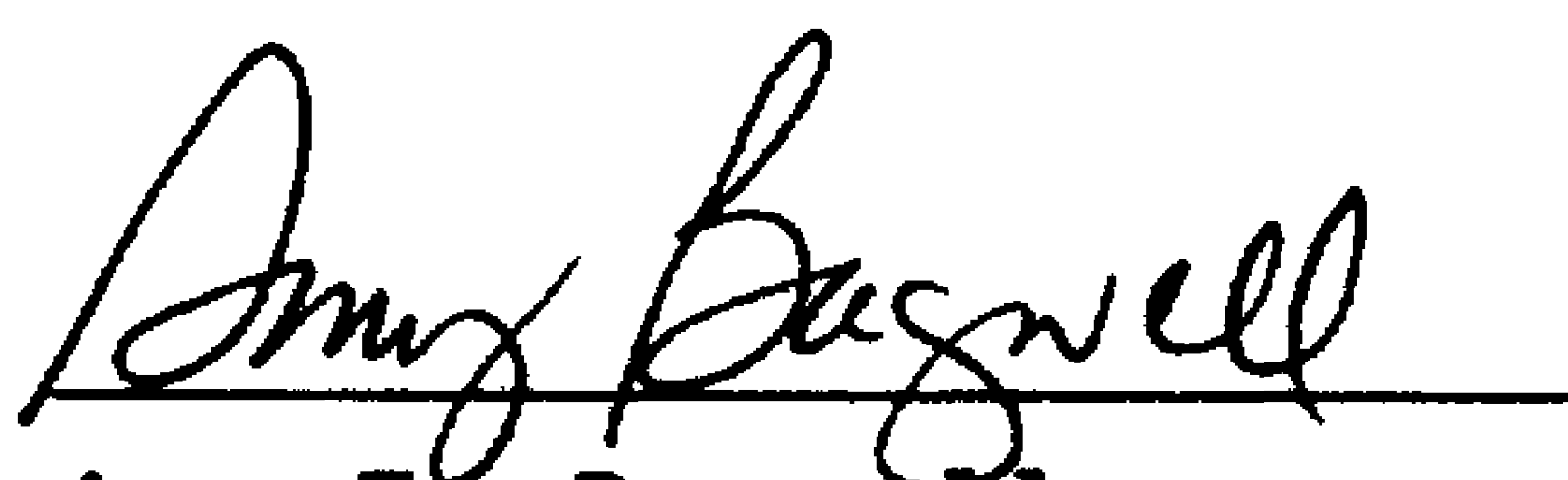
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.3	25.4	27.9	20.8	12.2	9.0	2.4

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201194

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-16-92 Product: 5385 Car No.: 73384
 Time Logged In: 0600 Logged In By: msj Silo(s): 626
 Ship Date: 8/18 Order No: 14855-000 Customer: IPC

NO TICAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.15		.17		.17	
Contamination	BL							
	BR							
	<u>7</u>	<u>—</u>	<u>9</u>	<u>—</u>	<u>8</u>	<u>—</u>	<u>8</u>	<u>—</u>
	<u>5</u>	<u>—</u>	<u>9</u>	<u>—</u>	<u>10</u>	<u>—</u>	<u>8</u>	<u>—</u>
Bulk Density	.582		.589		.589		.588	
BD after Fluff								
Hard Particle 5	<u>5</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
7	<u>2 HPL</u>							
Viscosity	.934							
RVCM	.142							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.15</u>	<u>12.70</u>	<u>13.93</u>	<u>10.44</u>	<u>6.08</u>	<u>4.50</u>	<u>1.18</u>
%	<u>0.0</u>	<u>2.3</u>	<u>25.4</u>	<u>27.9</u>	<u>20.8</u>	<u>12.2</u>	<u>9.0</u>	<u>2.4</u>

Drytime: 5.0 Static Flow: 0.88 Avg. Microns: 159.1

Color L: 100.74 a 0.07 b 1.50

VAB.0001201195

Technician: DT-HPL

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: August 13, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73399

Ship Date: August 11, 1992

Order No.: 0013894-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.025
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
8	9	14	13

Hard Particles @ 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.3
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.509
Moisture, %	ABR-1A	0.30 Max.	0.23
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	4.1	38.1	27.8	15.5	7.5	5.2	1.8

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


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201196

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-10-92Product: 5415Car No.: 73399Time Logged In: 1300Logged In By: MOSilo(s): 690, 691Ship Date: 8/11/92Order No: 13894-002Customer: SEED/IPCNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.23		.23		.23		.23	
Contamination	BL	<u>5</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>7</u>	<u>6</u>	<u>7</u>
	BR	<u>3</u>	<u>3</u>	<u>6</u>	<u>4</u>	<u>7</u>	<u>6</u>	<u>6</u>
Bulk Density	.510		.510		.503		.513	
Hard Particle	5	<u>10</u>						
	7	<u>2</u>						
Viscosity	1.016							
RVCM	.025							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.07</u>	<u>19.06</u>	<u>13.92</u>	<u>7.71</u>	<u>3.75</u>	<u>2.62</u>	<u>0.90</u>
%	<u>0.0</u>	<u>4.1</u>	<u>38.1</u>	<u>27.8</u>	<u>15.5</u>	<u>7.5</u>	<u>5.2</u>	<u>1.8</u>

Drytime: 4.9 Static Flow: 0.93 Avg. Microns: 175.8Color L: 100.72 a 0.02 b 1.38METS: 8718 / 119.5 %Technician: DT. + HPL

VAB.0001201197

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 12, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: ACFX 41161

Attention: Quality Control Dept.

Order No.: 0013894-001

Ship Date: August 10, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.017
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

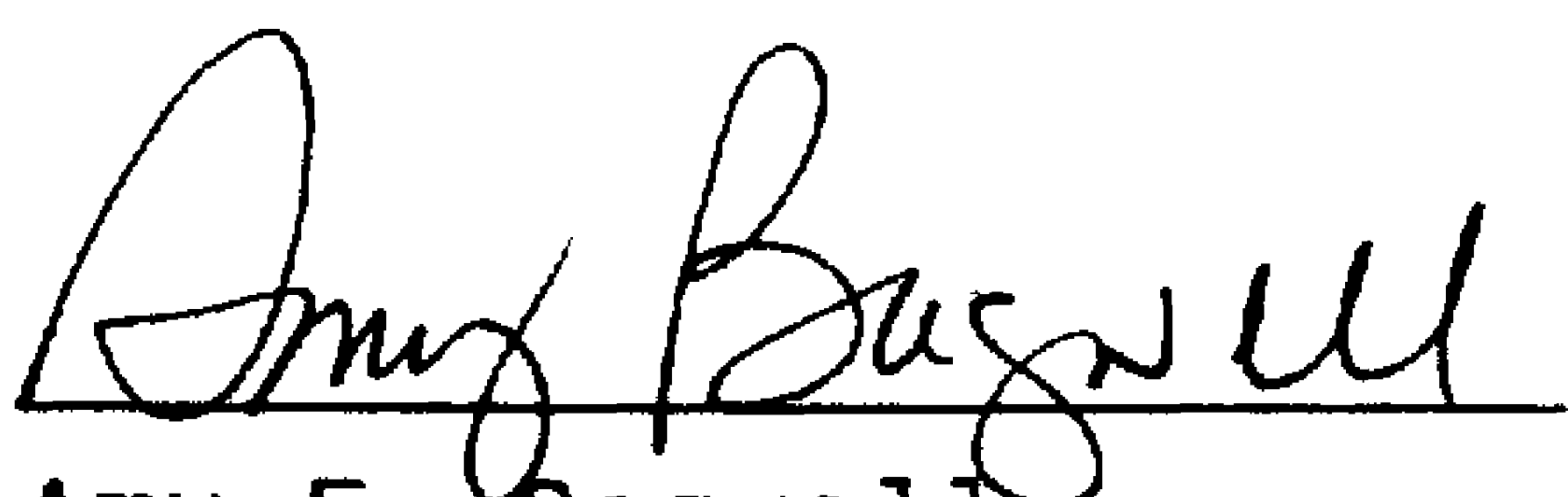
A	CA	CB	B
5	5	4	4

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.3
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.520
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.7	39.6	28.8	14.8	6.7	4.9	1.5

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



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201198

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-7-92 Product: 5415 Car No.: 41161
 Time Logged In: 1400 Logged In By: 6 Silo(s): 691
 Ship Date: 8/10/92 Order No: 13894-001 Customer: IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.14		.17		.14		.12	
Contamination	BL	<u>2</u>	<u>5</u>	<u>2</u>	<u>1</u>	<u>4</u>	<u>2</u>	<u>6</u>
	BR	<u>3</u>	<u>6</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>7</u>	<u>5</u>
Bulk Density	.523		.521		.517		.520	
Hard Particle	5	<u>4</u>	—	—	—	—	—	—
	7	<u>76</u>	—	—	—	—	—	—
Viscosity	1.029							
RVCM	.017							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.85</u>	<u>19.80</u>	<u>14.39</u>	<u>7.37</u>	<u>3.35</u>	<u>2.46</u>	<u>0.76</u>
%	<u>0.0</u>	<u>3.7</u>	<u>39.6</u>	<u>28.8</u>	<u>14.8</u>	<u>6.7</u>	<u>4.9</u>	<u>1.5</u>

Drytime: 5.0 Static Flow: 0.83 Avg. Microns: 177.0

Color L: 100.90 a 0.01 b 1.24

METS: 8206, 119.0 %

Technician: CB & E&S

VAB.0001201199

CERTIFICATE OF ANALYSIS

Date: August 7, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45866

Ship Date: August 6, 1992

Order No.: 0013892-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.92
Residual VCM, ppm	ABGC-26	8.5 Max.	0.063
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	7	6	21

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Max.	9.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.578
Moisture, %	ABR-1A	0.30 Max.	0.11
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

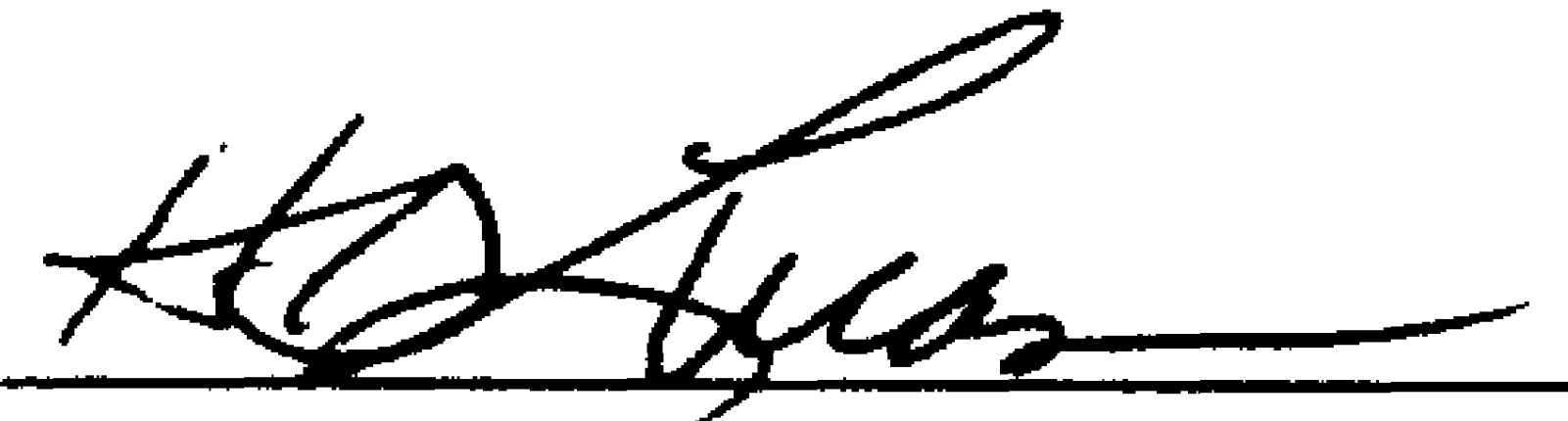
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.2	29.4	28.5	19.2	10.2	7.8	2.7

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	4.9
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
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VAB.0001201200

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-5-92 Product: 5385 Car No.: 45866
 Time Logged In: 06:30 Logged In By: MD Silo(s): 676, 677
 Ship Date: 8/6/92 Order No: 0013892-003 Customer: Inter

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.09		.10		.11		.10	
Contamination	BL		13		12		13	
	BR		4		4		17	
Bulk Density	.577		.577		.578		.580	
BD after Fluff								
Hard Particle 5	9							
7	3 P.C.							
Viscosity	.923							
RVCM	.063							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	1.08	14.12	14.24	9.71	5.12	3.88	1.34
%	0.0	2.2	29.4	28.5	19.2	10.2	7.8	2.7

Drytime: 4.9 Static Flow: 0, 9.9 Avg. Microns: 162.8

Color L: 100.37 a 0.01 b 1.58

Technician: D. J. H. DL

VAB.0001201201

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 7, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46475

Ship Date: August 6, 1992

Order No.: 0013689-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.012
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
10	8	11	7

Hard Particles @ 7 mins.	ABR-12	5 Max.	4
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.7
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.496
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.5	35.9	30.4	17.1	7.2	5.1	1.8

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


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VAB.0001201202

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-5-92Product: 5415Car No.: 46475Time Logged In: 1630Logged In By: PCSilo(s): 690+691Ship Date: 8/6/92Order No: 0013689-001Customer: IPC

No METAL

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.11		.14		.15		.12	
Contamination ^{BL}	<u>3</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>1</u>
^{BR}	<u>7</u>	<u>8</u>	<u>5</u>	<u>5</u>	<u>9</u>	<u>7</u>	<u>4</u>	<u>8</u>
Bulk Density	.495		.490		.493		.507	
Hard Particle ⁵	<u>10</u>	—	—	—	—	—	—	—
⁷	<u>4 JS</u>							
Viscosity	1.029							
RVCM	.012							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.25</u>	<u>17.92</u>	<u>15.22</u>	<u>8.25</u>	<u>3.62</u>	<u>2.56</u>	<u>0.89</u>
%	<u>0.0</u>	<u>2.5</u>	<u>35.9</u>	<u>30.4</u>	<u>17.1</u>	<u>7.2</u>	<u>5.1</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0.18.7Avg. Microns: 172Color L: 100.58 a .10 b 1.19METS: 8584, 113.0 %Technician: RJL + JS

VAB.0001201203

Vista Polymers
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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 8/7/92

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5385

Attention: Quality Control Manager

Order No.: 0014534-000

Date of Shipment: 8/6/92

TRAILER No.: T480084

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	.92
Residual VCM, ppm	ABGC-26	.002
Contamination	ABR-5A	
	Total Black + Brown	8
Hard Particles @ 7 Mins.	ABR-12	6
Static Flow, Seconds	ABR-8	8.2
Bulk Density, gm/cc	ABR-2A	.587
Moisture, %	ABR-1A	.14
Particle Size Distribution	ABR-3	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.9	19.5	27.0	23.7	14.5	11.5	2.9

Brabender Dry Time, Mins.

ABR-7

5.1


Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001201204

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/Brown	Static Flow	L & N Values			CPA Glassy	Visc.
					40	60	80	100	120	140	200	Pan						L	A	B		
021774	1600 JPS		comp 1410										40/60E	.587				20	50	80		
					0.00	0.45	9.75	13.52	11.79	7.26	5.77	1.47	P	.578	5.1	0	8.2	100.83	0.01	1.27		
					0.0	0.9	19.5	27.0	23.7	14.5	11.5	2.9										
			1	.14												0/6		20	50	80		.92
			4	.12												1/5		20	50	80		.92
			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						

Almond 2458

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A

CERTIFICATE OF ANALYSIS

Date: August 5, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: VIPX 45706

Attention: Quality Control Dept.

Order No.: 0013894-000

Ship Date: August 3, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.026
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
5	10	7	5

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.9
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.510
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.4	43.5	30.2	12.8	5.1	3.2	1.8

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



Amy E. Bagwell
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VAB.0001201206

Vista Polymers

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Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-31-92 Product: 5415 Car No.: 45706
 Time Logged In: 1200 Logged In By: RJ Silo(s): 690
 Ship Date: 8/3/92 Order No: 13894-000 Customer: ~~3014/5247~~/IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.14		.11		.13		.15	
Contamination	BL	<u>3</u>	<u>4</u>	<u>4</u>	<u>3</u>	<u>4</u>	<u>7</u>	<u>4</u>
	BR	<u>2</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>3</u>	<u>2</u>	<u>1</u>
Bulk Density	.513		.509		.512		.505	
Hard Particle	5	<u>3</u>	—	—	—	—	—	—
	7	<u>166</u>	—	—	—	—	—	—
Viscosity	1.027							
RVCM	.026							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.68</u>	<u>21.73</u>	<u>15.10</u>	<u>5.86</u>	<u>2.57</u>	<u>1.60</u>	<u>.90</u>
%	<u>0.0</u>	<u>3.4</u>	<u>43.5</u>	<u>30.2</u>	<u>12.8</u>	<u>5.1</u>	<u>3.2</u>	<u>1.8</u>

Drytime: 5.0 Static Flow: 0 17.9 Avg. Microns: 180.7

Color L: 100.76 a .09 b 1.44

METS: 8831 1122.1%

Technician: M. J. H. A.

VAB.0001201207

Vista Polymers
A Division of
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CERTIFICATE OF ANALYSIS

Date: August 5, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41165

Ship Date: August 3, 1992

Order No.: 0013892-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
Residual VCM, ppm	ABGC-26	8.5 Max.	0.002
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	7	6	21

Hard Particles @ 7 Mins.	ABR-12	15 Max.	15
Dry Flow, Seconds	ABR-8	15 Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.574
Moisture, %	ABR-1A	0.30 Max.	0.07
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

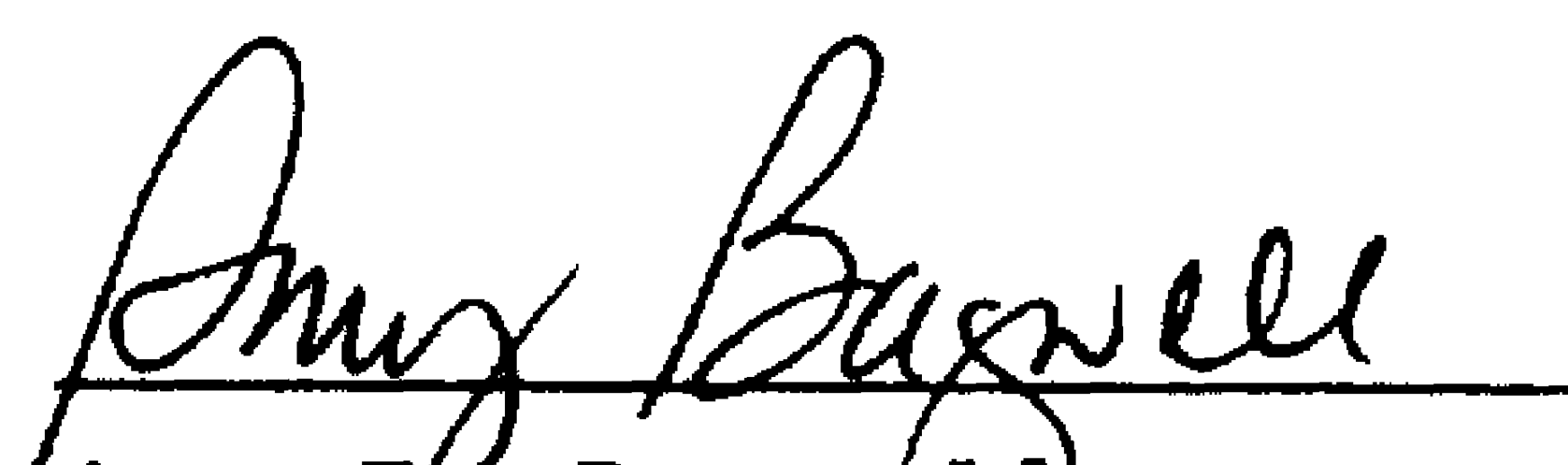
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	3.2	34.6	29.6	17.2	7.9	5.7	1.8

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201208

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 8-1-92 Product: 5385 Car No.: 41165
 Time Logged In: 0600 Logged In By: MS Silo(s): 676, 677
 Ship Date: 8/3 Order No: 13892-002 Customer: Intex

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.04		.07		.06	
Contamination	BL		1		1		3	
	BR		6		5		18	
Bulk Density	.569		.578		.579		.569	
BD after Fluff								
Hard Particle 5	50							
7	1539							
Viscosity	.935							
RVCM	.002							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.58</u>	<u>17.29</u>	<u>14.78</u>	<u>8.75</u>	<u>3.95</u>	<u>2.84</u>	<u>0.92</u>
%	<u>0.0</u>	<u>3.2</u>	<u>34.6</u>	<u>29.6</u>	<u>17.2</u>	<u>7.9</u>	<u>5.7</u>	<u>1.8</u>

Drytime: 5.0 Static Flow: 0.8.1 Avg. Microns: 171

Color L: 100.55 a -0.03 b 1.94

Technician: RH + JS

VAB.0001201209

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

A

CERTIFICATE OF ANALYSIS

Date: July 30, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45797

Ship Date: July 29, 1992

Order No.: 0012628-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 Max.	0.086
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	7	7	11

Hard Particles @ 7 Mins.	ABR-12	15 Max.	6
Dry Flow, Seconds	ABR-8	15 Max.	9.2
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.575
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	4.3	36.6	25.2	16.2	8.8	6.8	2.1

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

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VAB.0001201210

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-28-92Product: 5385Car No.: 45797Time Logged In: 1830Logged In By: msSilo(s): 676, 677Ship Date: 7/29/92Order No: 0012628-003Customer: IPCNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.15		.16		.17	
Contamination	BL							
	BR							
Bulk Density	.576		.560		.583		.582	
BD after Fluff								
Hard Particle 5	50							
7	6 MB							
Viscosity	.929							
RVCM	.086							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.16</u>	<u>18.29</u>	<u>12.59</u>	<u>8.00</u>	<u>4.38</u>	<u>3.40</u>	<u>1.06</u>
%	<u>0.0</u>	<u>4.3</u>	<u>36.6</u>	<u>25.2</u>	<u>16.2</u>	<u>8.8</u>	<u>6.8</u>	<u>2.1</u>

Drytime: 5.0Static Flow: 0.19.2Avg. Microns: 173.0Color L: 100.62 a 0.03 b 1.78Technician: Cot E S

VAB.0001201211

Vista Polymers
A Division of
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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 29, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PTLX 42057

Ship Date: July 27, 1992

Order No.: 0013892-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
Residual VCM, ppm	ABGC-26	8.5 Max.	0.335
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
9	3	22	40

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.579
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.6	31.4	29.2	18.3	10.0	7.3	2.2

Brabender Dry Time, Mins.	ABR-7	6.0 Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H. D. Lucas
Laboratory Supervisor

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VAB.0001201212

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-26-92Product: 5385Car No.: 42057Time Logged In: 0200Logged In By: Est.Silo(s): 676+677Ship Date: 7/27/92Order No: 0013892-001Customer: IPC*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.13		.10		.11	
Contamination	BL		2		14		32	
	BR		1		8		8	
Bulk Density	.50		.579		.577		.579	
BD after Fluff								
Hard Particle 5	12							
7	2TE							
Viscosity	.937							
RVCM	.335							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.78</u>	<u>15.68</u>	<u>14.62</u>	<u>9.29</u>	<u>5.00</u>	<u>3.65</u>	<u>1.12</u>
%	<u>0.0</u>	<u>1.6</u>	<u>31.4</u>	<u>29.2</u>	<u>18.3</u>	<u>10.0</u>	<u>7.3</u>	<u>2.2</u>

Drytime: 5.0Static Flow: 0.18.1Avg. Microns: 164.1Color L: 100.39 a .10 b 1.83

VAB.0001201213

Technician: MM + HA

Vista Polymers
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Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: July, 29, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: GACX 73382

Ship Date: July 27, 1992

Order No.: 0013688-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.083
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

A	CA	CB	B
15	11	12	32

Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.8
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.532
Moisture, %	ABR-1A	0.30 Max.	0.21
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	1.0	16.6	27.3	29.0	15.9	6.5	3.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

VAB.0001201214

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-29-92Product: 5305Car No.: 73382Time Logged In: 1400Logged In By: TESilo(s): 679-680Ship Date: 7/27/92Order No: 0013688-002Customer: IPC/ExportNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.08		.15		.18		.21	
Contamination	BL	8	6	5	13			
	BR	7	5	7	19			
Bulk Density	.536		.526		.535		.530	
BD w/antistat	.536							
Viscosity	.726		.723		.724		.738	
RVCM	.083		.113		.212		.044	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	5/11							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.48</u>	<u>8.30</u>	<u>13.63</u>	<u>14.73</u>	<u>7.97</u>	<u>3.27</u>	<u>1.83</u>
%	<u>0.0</u>	<u>1.0</u>	<u>16.6</u>	<u>27.3</u>	<u>29.0</u>	<u>15.9</u>	<u>6.5</u>	<u>3.7</u>

Avg. Microns: 148.6% Glassies: <1%Color L: 99.59 a 0.41 b 1.64Static Flow: 0 / 8.2Technician: BETHDL

Vista Polymers
A Division of
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Highway 25
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CERTIFICATE OF ANALYSIS

Date: July 28, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: PLCX 47609

Ship Date: July 24, 1992

Order No.: 0013690-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.095
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
9	11	9	9

Hard Particles @ 7 Mins.	ABR-12	15 Max.	6
Dry Flow, Seconds	ABR-8	15 Sec. Max.	10.6
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.569
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

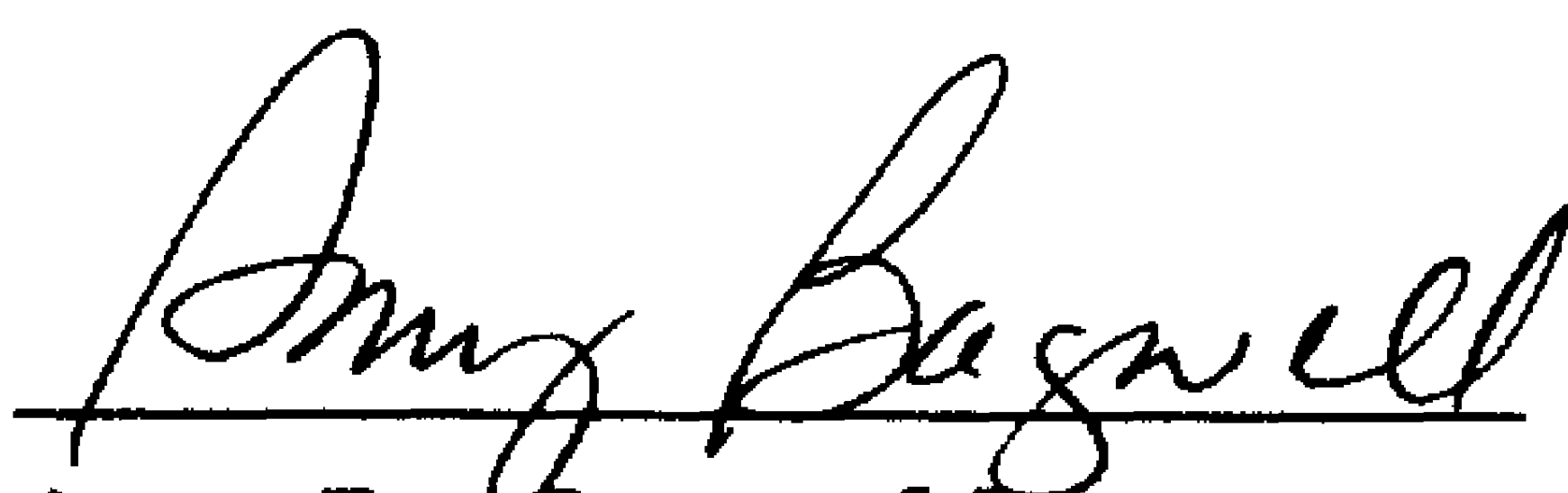
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	4.3	31.3	26.1	18.0	10.1	8.0	2.2

Brabender Dry Time, Mins.	ABR-7	6.0 Mins. Max.	5.0
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201216

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-23-92Product: 5385Car No.: 47609Time Logged In: 0500Logged In By: M.TSilo(s): 676Ship Date: 7/24Order No: 13690-001Customer: IPCNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.13		.12		.13	
Contamination	BL		2		4		4	
	BR		9		5		5	
Bulk Density	.569		.569		.569		.569	
BD after Fluff								
Hard Particle 5	30							
7	60							
Viscosity	.930							
RVCN	.095							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.13</u>	<u>15.65</u>	<u>13.06</u>	<u>8.97</u>	<u>5.05</u>	<u>3.98</u>	<u>1.11</u>
%	<u>0.0</u>	<u>4.3</u>	<u>31.3</u>	<u>26.1</u>	<u>18.0</u>	<u>10.1</u>	<u>8.0</u>	<u>2.2</u>

Drytime: 5.0Static Flow: 0 / 10.6 Avg. Microns: 168.2Color L: 99.83 a 0.16 b 2.41

VAB.0001201217

Technician: CO + ES

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Highway 25
Post Office Box 91

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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 28, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45793

Ship Date: July 24, 1992

Order No.: 0013892-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.089
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
20	35	19	21

Hard Particles @ 7 Mins.	ABR-12	15 Max.	4
Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

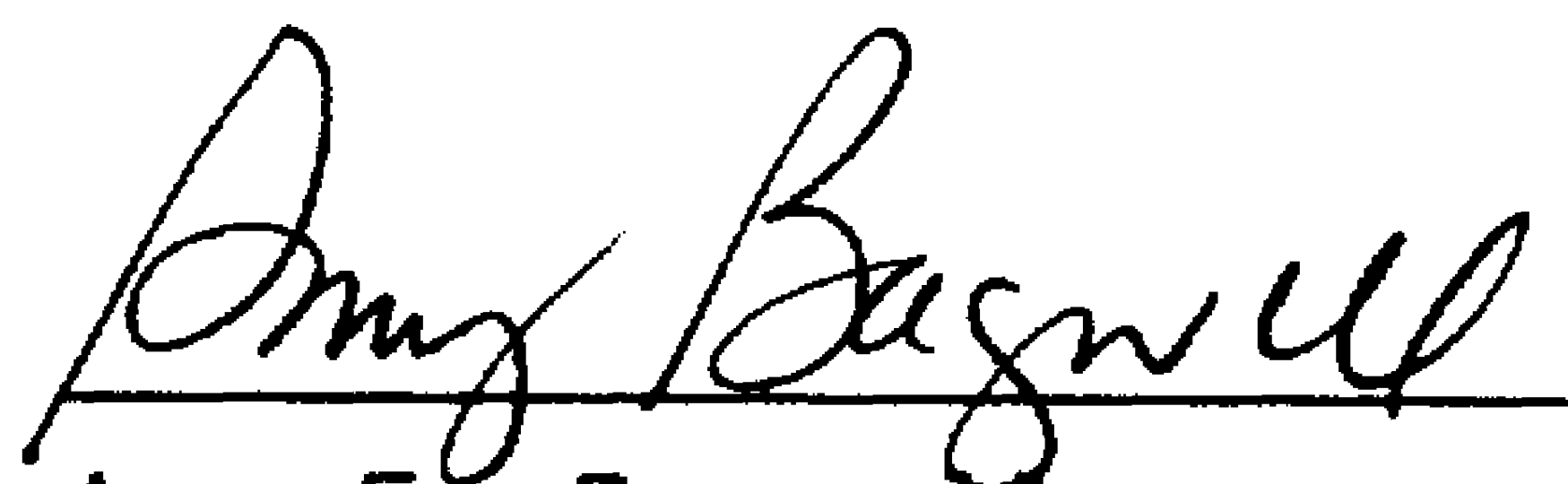
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	5.8	30.7	26.0	16.9	9.8	7.3	3.5

Brabender Dry Time, Mins. ABR-7 6.0 Mins. Max. 5.1

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201218

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7.23.92Product: 5385Car No.: 45793Time Logged In: 1100Logged In By: AMSilo(s): 676, 677Ship Date: 7/24/92 Order No: 13892-000 Customer: IPC*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.15		.13		.16	
Contamination	BL							
	BR							
	<u>6</u>	—	<u>5</u>	—	<u>3</u>	—	<u>7</u>	—
	<u>14</u>		<u>30</u>		<u>16</u>		<u>14</u>	
Bulk Density	.583		.580		.579		.582	
BD after Fluff								
Hard Particle 5	<u>30</u>	—	—	—	—	—	—	—
7	<u>435</u>							
Viscosity	.926							
RVCM	.089							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.90</u>	<u>15.36</u>	<u>13.02</u>	<u>8.79</u>	<u>4.91</u>	<u>3.65</u>	<u>1.76</u>
%	<u>0.0</u>	<u>5.8</u>	<u>30.7</u>	<u>26.0</u>	<u>16.9</u>	<u>9.8</u>	<u>7.3</u>	<u>3.5</u>

Drytime: 5.1 Static Flow: 0 / 7.9 Avg. Microns: 169.8Color L: 97.81 a -.18 b 2.04

VAB.0001201219

Technician: MMES

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A

CERTIFICATE OF ANALYSIS

Date: July 28, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: ACFX 41178

Ship Date: July 22, 1992

Order No.: 0012628-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.053
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
12	11	15	11

Hard Particles @ 7 Mins.	ABR-12	15 Max.	4
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.7
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.583
Moisture, %	ABR-1A	0.30 Max.	0.09
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

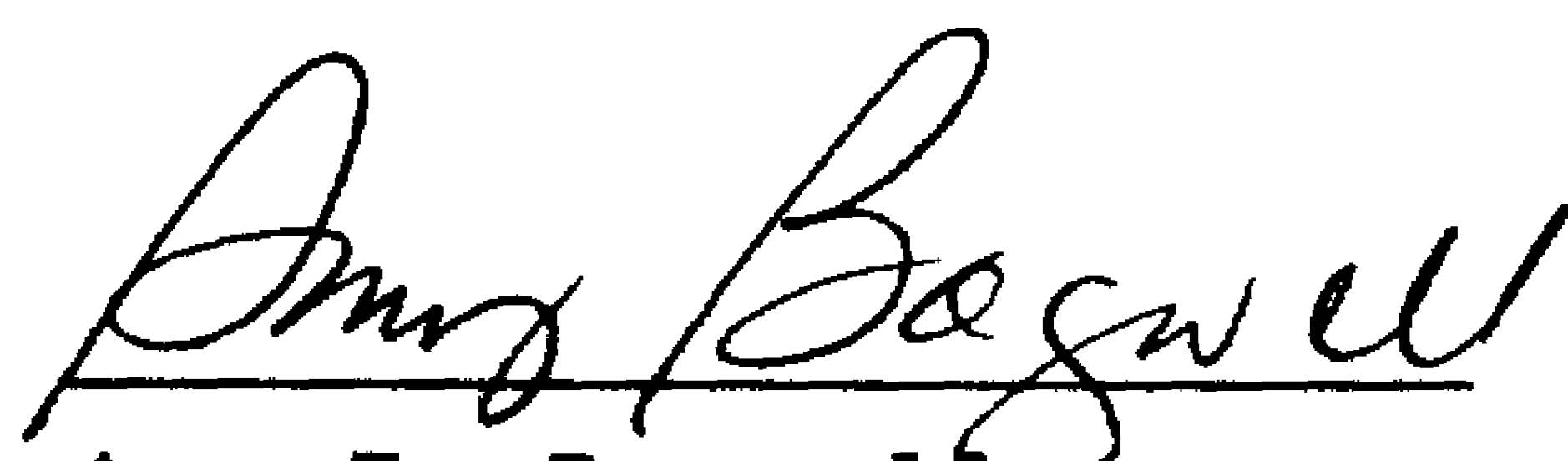
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.7	34.8	26.9	18.5	9.9	7.1	2.1

Brabender Dry Time, Mins.	ABR-7	6.0 Mins. Max.	4.9
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201220

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-4-92Product: 5385Car No.: 41178Time Logged In: 1400Logged In By: MTSilo(s): 676, 677, 685Ship Date: 7/22Order No: 12628-002Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.09		.08		.09	
Contamination ^{BL} BR	$\frac{3}{9}$	—	$\frac{4}{7}$	—	$\frac{5}{10}$	—	$\frac{3}{8}$	—
Bulk Density	.582		.582		.589		.578	
BD after Fluff								
Hard Particle ⁵ 7	$\frac{12}{40}$	—	—	—	—	—	—	—
Viscosity	.942							
RVCM	.053							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.34</u>	<u>17.40</u>	<u>13.43</u>	<u>9.80</u>	<u>4.95</u>	<u>3.55</u>	<u>1.06</u>
%	<u>0.0</u>	<u>0.7</u>	<u>34.8</u>	<u>26.9</u>	<u>18.5</u>	<u>9.9</u>	<u>7.1</u>	<u>2.1</u>

Drytime: 4.9Static Flow: 0 18.7Avg. Microns: 164.6Color L: 100.21 a 0.02 b 1.95Technician: CO + HA

VAB.0001201221

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Vista Chemical Company

Highway 25
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Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 7/27/92

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5325

VISTA

Lot No.: 04988

Attention: Quality Control Dept.

Truck No.: T-480016

Ship Date: 7/22/92

Order No.:

<u>Property</u>	<u>Test Method</u>	<u>VISTA Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.78 - 0.82	<u>.80</u>
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	<u>.070</u>
Contamination, BLK/BRN	ABR-5A	35/100 Max.	<u>3/7</u>
Hard Particles @ 7 Mins.	ABR-12A	No Spec.	<u>50</u>
Dry Flow, Seconds	ABR-8	15 Sec. Max.	<u>7.6</u>
Bulk Density, gm/cc	ABR-2A	0.480 Min.	<u>.515</u>
Moisture, %	ABR-1A	0.30 Max.	<u>.17</u>
Particle Size Distribution	ABR-3	5.0 Max. on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.0	0.2	12.6	26.5	34.2	17.8	6.2	2.5

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Amy Bagwell

Laboratory Supervisor/Lead

(601) 369-3624

RESIN BAG BLEND

BLEND NO: 04988

PRODUCT: 5325

DATE: 7-2-92

TIME/TESTED BY: 13:00 / RMT

Avg. Microns, 5225/5325/5415: 145

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	6 13, SKID	0.0	0.08	6.31	13.23	16.99	8.98	3.12	1.23	515	59 150	-	0/ 7.6	100.26	0.24	1.61	25.5	41%		.070
			0.0	.2	12.6	26.5	34.2	17.9	6.2	2.5											
SKID #1	.17	3/6																		801	
SKID #4	.15	1/8																			
SKID #7	.15	2/4																			
SKID #10	.17	3/5																			
SKID #13	.16	3/7																		.798	
SKID #16	.16	1/10																			
SKID #19	.16	3/16																			
SKID #22																					
SKID #25																					
SKID #28																					
SKID #31																					
SKID #34																					
SKID #37																					

42750

VAB.0001201223

Vista Polymers
A Division of
Vista Chemical Company

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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: July 23, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: ACFX 41174

Ship Date: July 20, 1992

Order No.: 0013688-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.71 - 0.76	0.72
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Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.119
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Contamination, BLK + BRN	ABR-5A	60 Total	
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Total Black + Brown

A	CA	CB	B
16	17	16	15

Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.8
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Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.529
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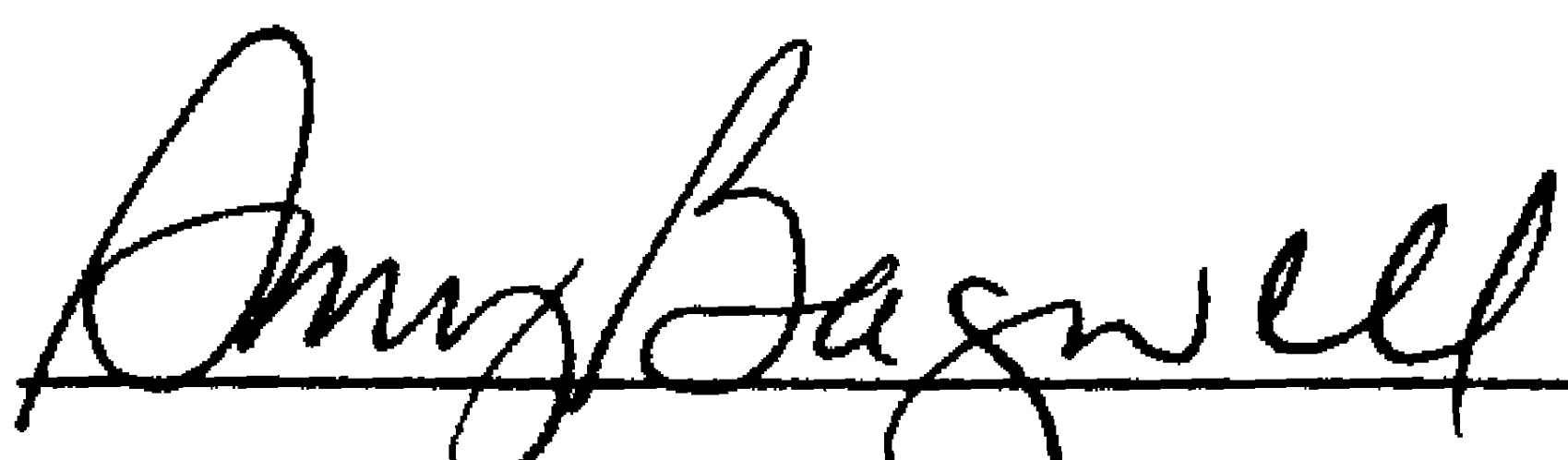
Moisture, %	ABR-1A	0.30 Max.	0.18
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Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	
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% ON

40	60	80	100	120	140	200	PAN
0.00	1.1	17.8	27.7	29.4	15.3	6.5	2.2

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201224

5385 Last
Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-25-92 Product: 5305 Car No.: 41174
Time Logged In: 1700 Logged In By: J.T. Silo(s): 678+680
Ship Date: 7/20 Order No: 13688-001 Customer: IPC/14-124

No meta L

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.16		.17		.12		.18	
Contamination	BL	8		8		7		8
	BR	8		9		9		7
Bulk Density	.536		.532		.520		.528	
BD w/antistat								
Viscosity	.721		.727		.718		.716	
RVCM	.119		.062		.008		.031	
Tappi Test Contamination Composite								
.06 or less			.07 ----- .15			.20 ----- .60		
6/12								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.53	8.90	13.86	14.61	7.65	3.25	1.12
%	0.0	1.1	17.8	27.7	29.4	15.3	6.5	2.2

Avg. Microns: 151.5 % Glassies: <1%

Color L: 100.16 a 0.31 b 1.52 Static Flow: 0 / 7.8

Technician: J.T. + HDL

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS ~~OFFGRADE~~

5305

Load Date: _____

Product: DEBOXCar No.: 41174

Time Logged In: _____

Logged In By: _____

Silo(s): _____

Ship Date: _____

Order No: _____

Customer: _____

COMPARTMENT	A		CA		CB		B	
Moisture %								
Contamination	/		/		/		/	
Bulk Density								
Color "L"								
Color "a"								
Color "b"								
Static Flow	/		/		/		/	
Viscosity	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
RVCM								

Screen Analysis

Bottoms

	Mesh	40	60	80	100	120	140	200	Pan
A	Weight	0.00	1.22	14.90	16.50	11.40	3.95	1.25	0.62
	%	0.00	2.4	29.8	33.0	23.2	7.9	2.5	1.2
CA	Weight	0.00	0.08	6.75	13.42	16.01	8.90	3.51	1.11
	%	0.00	0.2	13.5	26.8	32.5	17.8	7.0	2.2
CB	Weight	0.00	0.20	8.58	15.13	15.18	7.10	2.52	1.34
	%	0.0	0.4	17.2	30.3	30.2	14.2	5.0	2.7
B	Weight	0.00	0.25	8.57	15.30	15.36	7.00	2.21	1.20
	%	0.0	0.5	17.1	30.6	31.0	14.0	4.4	2.4

Technician: _____

VAB.0001201226

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS OFF-GRADE

5305

Load Date: _____

Product: DEBORCar No.: 41174

Time Logged In: _____

Logged In By: _____

Silo(s): _____

Ship Date: _____

Order No: _____

Customer: _____

COMPARTMENT	A		CA		CB		B	
Moisture %								
Contamination	/		/		/		/	
Bulk Density								
Color "L"								
Color "a"								
Color "b"								
Static Flow	/		/		/		/	
Viscosity	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
RVCM								

Screen Analysis

TOPS

	Mesh	40	60	80	100	120	140	200	Pan
A	Weight	<u>0.00</u>	<u>0.18</u>	<u>8.40</u>	<u>17.92</u>	<u>15.00</u>	<u>6.88</u>	<u>2.36</u>	<u>1.80</u>
	%	<u>0.0</u>	<u>0.4</u>	<u>16.8</u>	<u>29.8</u>	<u>30.9</u>	<u>13.8</u>	<u>4.7</u>	<u>3.6</u>
CA	Weight	_____	_____	_____	_____	_____	_____	_____	_____
	%	_____	_____	_____	_____	_____	_____	_____	_____
CB	Weight	_____	_____	_____	_____	_____	_____	_____	_____
	%	_____	_____	_____	_____	_____	_____	_____	_____
B	Weight	_____	_____	_____	_____	_____	_____	_____	_____
	%	_____	_____	_____	_____	_____	_____	_____	_____

Technician: _____

VAB.0001201227

Vista Polymers
A Division of
Vista Chemical Company

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Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: July 23, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: PLWX 44757

Attention: Quality Control Dept.

Order No.: 0013689-000

Ship Date: July 20, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.03
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.010
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
10	7	8	5

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.7
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.498
Moisture, %	ABR-1A	0.30 Max.	0.08
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.4	38.7	26.8	15.5	8.0	5.8	1.8

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


Amy E. Bagwell
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PVC RAILCAR ANALYSIS

Load Date: 7-17-92 Product: 5415 Car No.: 44757
 Time Logged In: 0600 Logged In By: LO Silo(s): 690
 Ship Date: 7/20/92 Order No: 13689-008 Customer: Intty

metol (1)

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.07		.07		.05		.08	
Contamination	BL	<u>4</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>2</u>
	BR	<u>6</u>	<u>4</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>5</u>
Bulk Density	.497		.502		.495		.497	
Hard Particle	5	<u>2</u>	—	—	—	—	—	—
	7	<u>1 PC</u>	—	—	—	—	—	—
Viscosity	1.025							
RVCM	.010							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.72</u>	<u>19.37</u>	<u>13.38</u>	<u>7.64</u>	<u>4.02</u>	<u>2.88</u>	<u>.90</u>
% P	<u>0.0</u>	<u>3.4</u>	<u>38.7</u>	<u>26.8</u>	<u>15.5</u>	<u>8.0</u>	<u>5.8</u>	<u>1.8</u>

Drytime: 4.9 Static Flow: 0 18.7 Avg. Microns: 174.2

Color L: 100.82 a 0.16 b 1.29

METS: 9620, 119.0%

Technician: MT + RH

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A

CERTIFICATE OF ANALYSIS

Date: July 20, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385 **VISTA**

Attention: Quality Control Dept.

Railcar No.: UTCX 46419

Ship Date: July 17, 1992

Order No.: 0013690-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.95
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.027
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
7	11	11	11

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.582
Moisture, %	ABR-1A	0.30 Max.	0.12
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	1.8	32.1	28.6	19.0	9.8	6.6	2.1

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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A

PVC RAILCAR ANALYSIS

Load Date: 7-4-92 Product: 5385 Car No.: 46419
 Time Logged In: 1400 Logged In By: M.T. Silo(s): 676, 677, 675
 Ship Date: 7/17 Order No: 13690-000 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.10		.12		.12	
Contamination	BL							
	BR							
Bulk Density	.578		.586		.581		.584	
BD after Fluff								
Hard Particle 5	10							
	7							
Viscosity	.947							
RVCM	.027							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.89</u>	<u>16.07</u>	<u>14.32</u>	<u>9.39</u>	<u>4.88</u>	<u>3.30</u>	<u>1.03</u>
%	<u>0.0</u>	<u>1.8</u>	<u>32.1</u>	<u>28.6</u>	<u>19.0</u>	<u>9.8</u>	<u>6.6</u>	<u>2.1</u>

Drytime: 4.9 Static Flow: 0, 8.1 Avg. Microns: 165.4

Color L: 100.24 a -.07 b 1.96

Technician: GHA

VAB.0001201231

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A

CERTIFICATE OF ANALYSIS

Date: July 20, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: PLWX 44567

Ship Date: July 17, 1992

Order No.: 0013688-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.151
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

A	CA	CB	B
7	5	13	6

Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.8
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.535
Moisture, %	ABR-1A	0.30 Max.	0.04
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.6	14.6	26.5	29.6	17.6	8.4	2.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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Vista Polymers

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5385 last

PVC RAILCAR ANALYSIS

Load Date: 5-9-92Product: 5305Car No.: 44567Time Logged In: 1000Logged In By: MSSilo(s): 687, 688Ship Date: 7/17/92 Order No: 13688-000 Customer: IPC/*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.01		.04		.04		.02	
Contamination	BL							
	BR							
Bulk Density	.526		.537		.537		.541	
BD w/antistat								
Viscosity	.728		.725		.726		.724	
RVCM	.151		.152		.250		.244	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.32</u>	<u>7.31</u>	<u>13.26</u>	<u>14.87</u>	<u>8.80</u>	<u>4.18</u>	<u>1.35</u>
%	<u>0.0</u>	<u>0.6</u>	<u>14.6</u>	<u>26.5</u>	<u>29.6</u>	<u>17.6</u>	<u>8.4</u>	<u>2.7</u>

Avg. Microns: 145-8% Glassies: <1%Color L: 99.98 a 0.39 b 1.59Static Flow: 0 / 7.8Technician: MA+JS

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A

CERTIFICATE OF ANALYSIS

Date: July 20, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: VIPX 45747

Ship Date: July 16, 1992

Order No.: 0012627-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.205
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

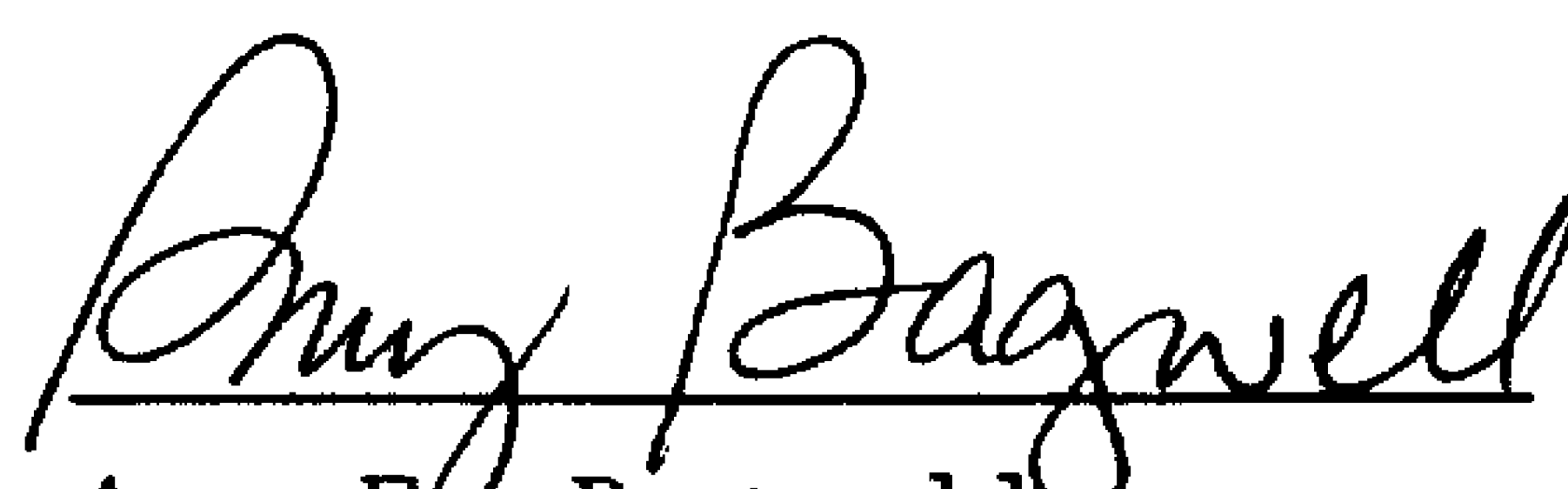
A	CA	CB	B
11	8	8	10

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.7
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.533
Moisture, %	ABR-1A	0.30 Max.	0.18
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.2	6.7	17.8	28.4	25.5	16.9	4.5

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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VAB.0001201234

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PVC RAILCAR ANALYSIS

Load Date: 4-30-92Product: 5305Car No.: 45747Time Logged In: 1800Logged In By: ESSilo(s): 678-687Ship Date: 7/16/92Order No: 12627-001Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.16		.16		.18		.17	
Contamination	BL	4	3		2		4	
	BR	7	5		6		6	
Bulk Density	.534		.531		.531		.536	
BD w/antistat								
Viscosity	.728		.721		.725		.729	
RVCM	.205		.092		.242		.217	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/4							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.08</u>	<u>3.33</u>	<u>8.90</u>	<u>14.46</u>	<u>12.73</u>	<u>8.44</u>	<u>2.23</u>
%	<u>0.0</u>	<u>.2</u>	<u>6.7</u>	<u>17.8</u>	<u>28.4</u>	<u>25.5</u>	<u>16.9</u>	<u>4.5</u>

Avg. Microns: 129.1% Glassies: < 1%Color L: 99.75 a .29 b 1.49Static Flow: 0 / 8.7Technician: CO + ES

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CERTIFICATE OF ANALYSIS

Date: July 17, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: VIPX 45901

Ship Date: July 15, 1992

Order No.: 0012628-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.95
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.039
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
12	11	23	10

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.7
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.577
Moisture, %	ABR-1A	0.30 Max.	0.04
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

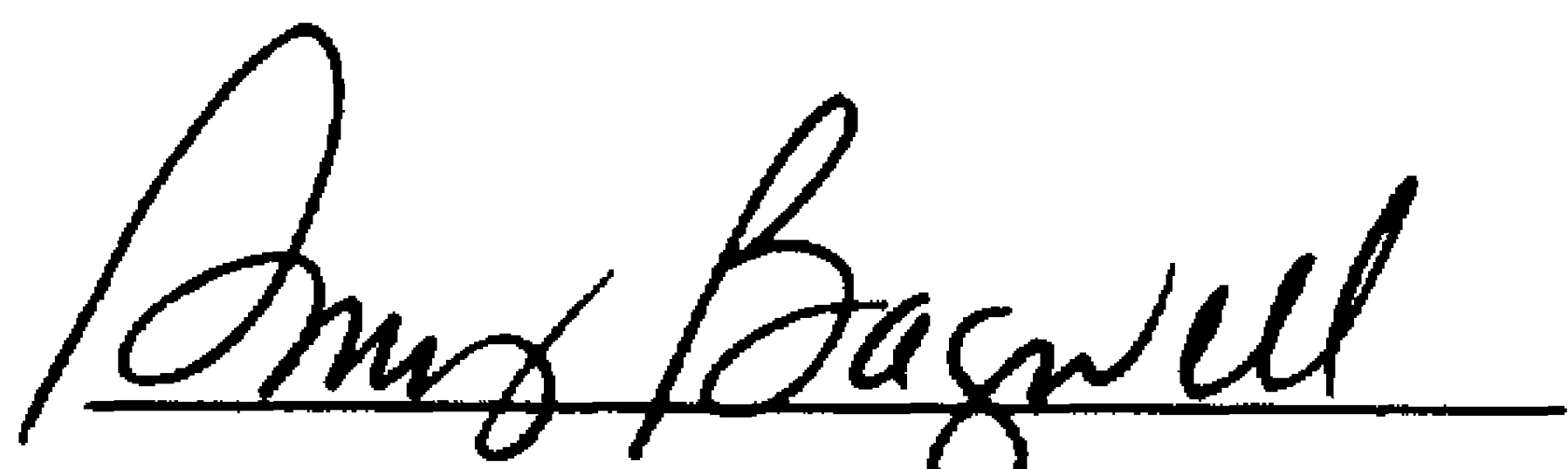
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.7	36.7	28.0	18.4	8.8	5.7	1.7

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


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Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-3-92Product: 5385Car No.: 45901Time Logged In: 0230Logged In By: PTSilo(s): 676, 677, 685Ship Date: 7/15Order No: 12628-001Customer: IPCNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.04		.03		.04	
Contamination ^{BL} _{BR}	$\frac{5}{7}$	—	$\frac{3}{8}$	—	$\frac{9}{14}$	—	$\frac{3}{7}$	—
Bulk Density	.579		.577		.576		.575	
BD after Fluff								
Hard Particle ⁵ ₇	$\frac{9}{2MB}$	—	—	—	—	—	—	—
Viscosity	.945							
RVCM	.039							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.34</u>	<u>18.35</u>	<u>14.00</u>	<u>8.92</u>	<u>4.38</u>	<u>2.85</u>	<u>.85</u>
% P	<u>0.0</u>	<u>.7</u>	<u>36.7</u>	<u>28.0</u>	<u>18.4</u>	<u>8.8</u>	<u>5.7</u>	<u>1.7</u>

Drytime: 4.8 Static Flow: 0.9.7 Avg. Microns: 167.6Color L: 100.54 a 0.05 b 1.89Technician: MT & RH

VAB.0001201237

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A

CERTIFICATE OF ANALYSIS

Date: July 15, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: PLWX 44717

Attention: Quality Control Dept.

Order No.: 0012626-000

Ship Date: July 10, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.02
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.013
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
7	6	9	13

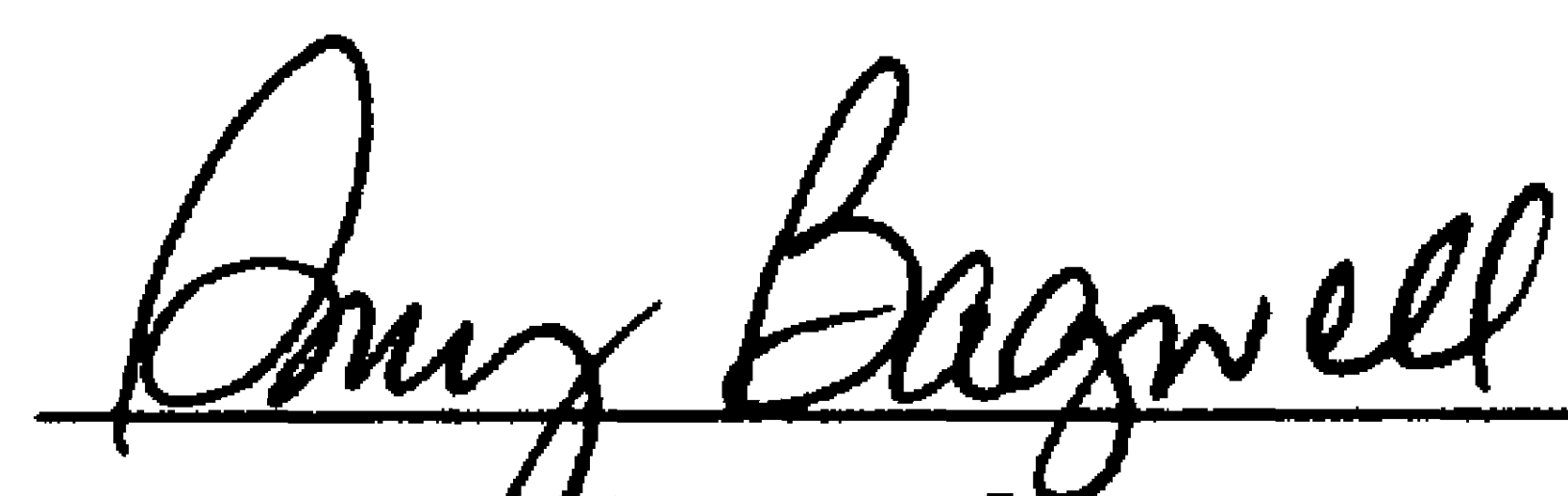
Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.5
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.495
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.9	38.6	26.1	14.5	7.6	6.8	2.5

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 4.8


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Vista Polymers

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PVC RAILCAR ANALYSIS

Load Date: 7-9-92 Product: 5415 Car No.: 44717
 Time Logged In: 1800 Logged In By: B Silo(s): 691
 Ship Date: 7/10/92 Order No: 12626-000 Customer: IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.16		.14		.13	
Contamination	BL							
	BR							
	<u>2</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>3</u>	<u>3</u>
	<u>5</u>	<u>7</u>	<u>3</u>	<u>7</u>	<u>6</u>	<u>5</u>	<u>10</u>	<u>7</u>
Bulk Density	.490		.502		.491		.497	
Hard Particle	5							
	7							
	<u>3</u>	—	—	—	—	—	—	—
	<u>1 mb</u>							
Viscosity	1.024							
RVCM	.013							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>1.93</u>	<u>19.32</u>	<u>13.05</u>	<u>7.13</u>	<u>3.78</u>	<u>3.42</u>	<u>1.26</u>
% P	<u>0.0</u>	<u>3.9</u>	<u>38.6</u>	<u>26.1</u>	<u>14.5</u>	<u>7.6</u>	<u>6.8</u>	<u>2.5</u>

Drytime: 4.8 Static Flow: 0 18.5 Avg. Microns: 173.9

Color L: 101.08 a 0.11 b 1.36

METS: 8857, 109.5 %

Technician: MT & RH

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CERTIFICATE OF ANALYSIS

Date: July 10, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: GACX 73400

Ship Date: July 8, 1992

Order No.: 0012628-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.101
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	8	12	9

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.0
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.582
Moisture, %	ABR-1A	0.30 Max.	0.18
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.2	38.2	27.4	17.0	8.4	5.1	1.7

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
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VAB.0001201240

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 7-2-92 Product: 5385 Car No.: 73400
 Time Logged In: 1400 Logged In By: M.T Silo(s): 676-77-85
 Ship Date: 7/8 Order No: 12628-000 Customer: IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.12		.16		.16	
Contamination	BL		2		3		2	
	BR	5	6		8		7	
Bulk Density	.581		.580		.582		.584	
BD after Fluff								
Hard Particle 5	6							
7	26							
Viscosity	.934							
RVCM	.101							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.10</u>	<u>19.11</u>	<u>13.71</u>	<u>8.47</u>	<u>4.18</u>	<u>2.56</u>	<u>0.84</u>
%	<u>0.0</u>	<u>2.2</u>	<u>38.2</u>	<u>27.4</u>	<u>17.0</u>	<u>8.4</u>	<u>5.1</u>	<u>1.7</u>

Drytime: 4.9 Static Flow: 0.18.0 Avg. Microns: 171.9

Color L: 99.52 a 0.04 b 1.77

Technician: CO + ES

VAB.0001201241

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CERTIFICATE OF ANALYSIS

Date: July 10, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Dept.

Railcar No.: UTCX 46510

Ship Date: July 9, 1992

Order No.: 0012627-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.72
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.058
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

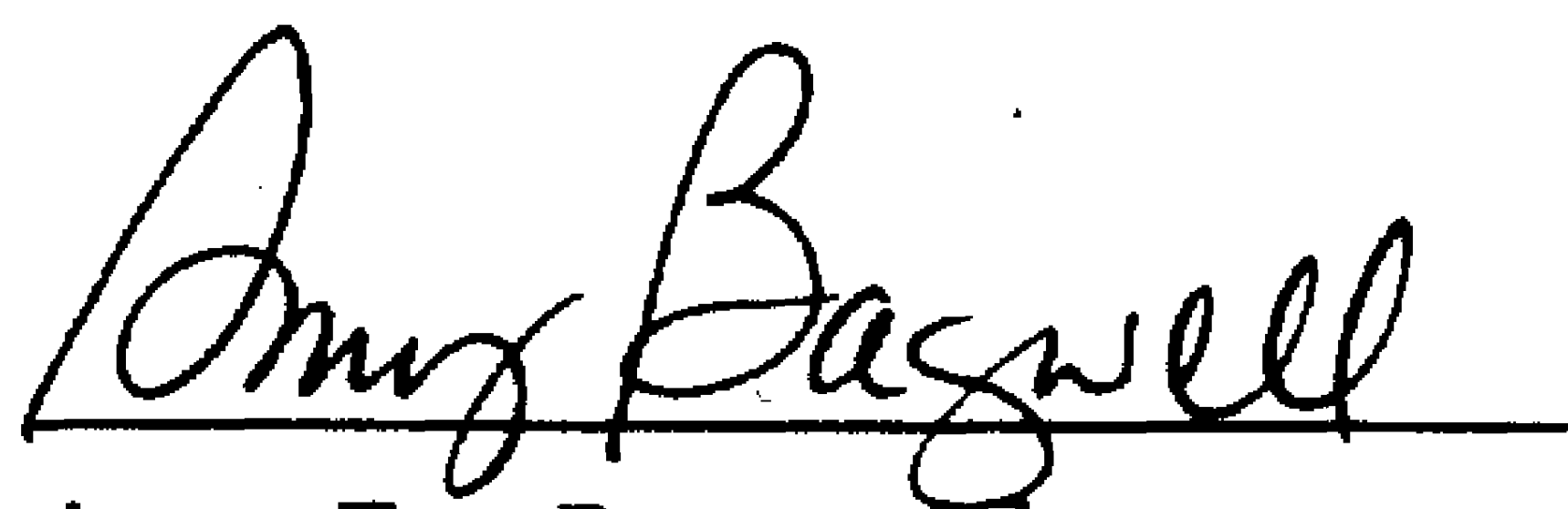
A	CA	CB	B
21	14	10	11

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.6
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.527
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.1	8.0	20.9	31.8	23.4	12.0	3.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



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VAB.0001201242

PVC RAILCAR ANALYSIS

Load Date: 5-10-92Product: 5305Car No.: 46510Time Logged In: 0630Logged In By: MJSilo(s): 680Ship Date: 7/9Order No: 12627-000Customer: IPC/HNO METAL5-15-92 7

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.15		.15		.15		.13	
Contamination	BL	<u>5</u>	<u>5</u>	<u>4</u>	<u>6</u>			
	BR	<u>10</u>	<u>9</u>	<u>6</u>	<u>5</u>			
Bulk Density	<u>.542</u>		<u>.542</u>		<u>.542</u>		<u>.542</u>	
BD w/antistat								
Viscosity	<u>.721</u>		<u>.728</u>		<u>.723</u>		<u>.722</u>	
RVCM	<u>.058</u>		<u>.069</u>		<u>.089</u>		<u>.012</u>	
Tappi Test Contamination Composite								
		.06 or less		.07 ----- .15		.20 ----- .60		
		<u>6/12</u>						

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.06</u>	<u>4.01</u>	<u>10.45</u>	<u>15.96</u>	<u>11.70</u>	<u>6.00</u>	<u>1.91</u>
%	<u>0.00</u>	<u>0.1</u>	<u>8.0</u>	<u>20.9</u>	<u>31.8</u>	<u>23.4</u>	<u>12.0</u>	<u>3.8</u>

Avg. Microns: 134.2% Glassies: 41%Color L: 100.13 a 0.41 b 1.64Static Flow: 0 / 8.6Technician: D.T.H.H.L

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
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Aberdeen, Mississippi 39730-0091
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: July 6, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Dept.

Railcar No.: UTCX 46414

Ship Date: June 30, 1992

Order No.: 0011894-005

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.012
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
9	11	9	10

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

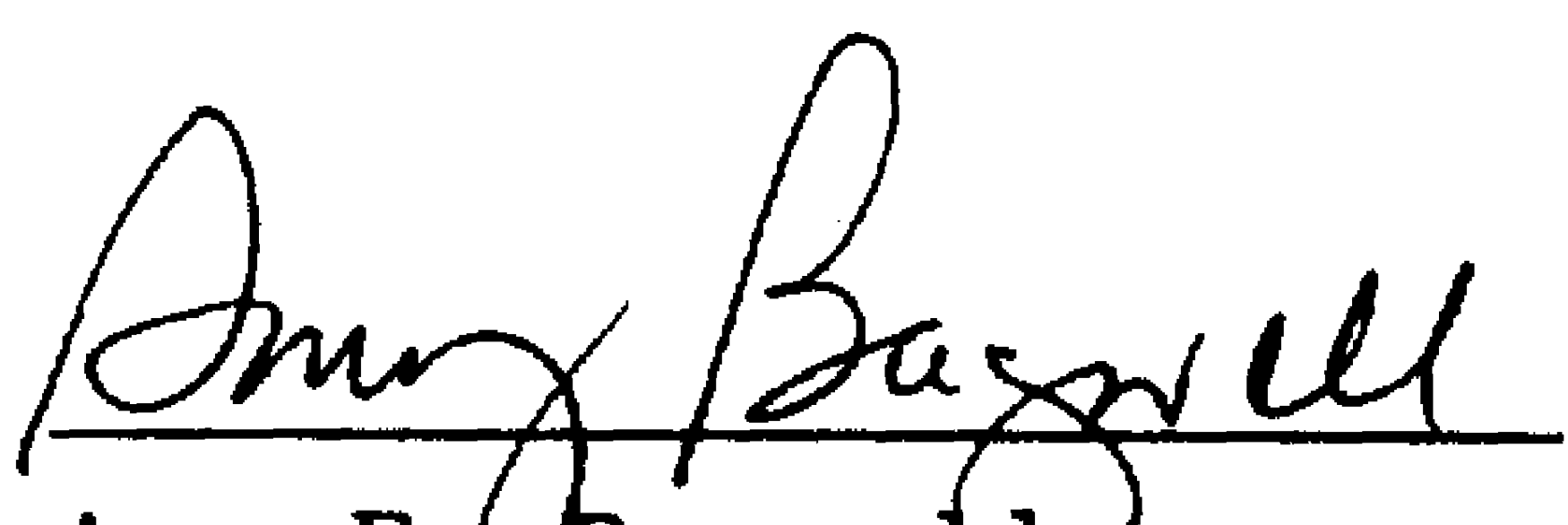
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.5	29.0	30.5	20.2	10.0	6.1	1.7

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201244

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-29-92 Product: 5385 Car No.: 46414
 Time Logged In: 0600 Logged In By: D.T. Silo(s): 670, 677, 685
 Ship Date: 6/30 Order No: 11894-005 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.13		.11		.10	
Contamination	BL							
	BR							
	<u>7</u> <u>2</u>	—	<u>6</u> <u>5</u>	—	<u>3</u> <u>6</u>	—	<u>6</u> <u>4</u>	—
Bulk Density	.581		.584		.580		.577	
BD after Fluff								
Hard Particle 5 7	<u>21</u> <u>353</u>	—	—	—	—	—	—	—
Viscosity	.928							
RVCM	.012							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.26</u>	<u>14.48</u>	<u>15.25</u>	<u>10.06</u>	<u>5.00</u>	<u>3.07</u>	<u>.84</u>
%	<u>0.0</u>	<u>2.5</u>	<u>29.0</u>	<u>30.5</u>	<u>20.2</u>	<u>10.0</u>	<u>6.1</u>	<u>1.7</u>

Drytime: 4.9 Static Flow: 0 17.9 Avg. Microns: 165.4

Color L: 100.75 a -0.1 b 1.76

Technician: M. J. H. A.

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CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

Railcar No.: PTLX 42185

Attention: Quality Control Manager

Order No.: 0011898-001

Ship Date: June 15, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.013
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
5	5	8	7

Hard Particles @ 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.3
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.521
Moisture, %	ABR-1A	0.30 Max.	0.25
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	4.2	36.4	28.5	16.8	7.6	4.9	1.6

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



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Laboratory Supervisor/Lead

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VISTA

Vista Polymers

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Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-11-92 Product: 5415 Car No.: 42185
 Time Logged In: 0100 Logged In By: MT Silo(s): 690-691
 Ship Date: 6/15/92 Order No: 11898-001 Customer: IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.24		.25		.15		.17	
Contamination ^{BL} BR	$\frac{2}{3}$	$\frac{3}{7}$	$\frac{1}{4}$	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{4}{8}$	$\frac{1}{6}$	$\frac{3}{8}$
Bulk Density	.523		.524		.519		.518	
Hard Particle ⁵ ⁷	$\frac{4}{26}$	—	—	—	—	—	—	—
Viscosity	1.008							
RVCM	.013							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Par
Weight	<u>0.00</u>	<u>2.10</u>	<u>18.21</u>	<u>14.27</u>	<u>8.35</u>	<u>3.81</u>	<u>2.45</u>	<u>0.82</u>
%	<u>0.0</u>	<u>4.2</u>	<u>36.4</u>	<u>28.5</u>	<u>16.8</u>	<u>7.6</u>	<u>4.9</u>	<u>1.6</u>

Drytime: 5.0 Static Flow: 0 / 9.3 Avg. Microns: 175.2

Color L: 100.62 a 0.08 b 1.20

METS: 9457, 119.4%

Technician: Cotter

VAB.0001201247

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CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Manager

Railcar No.: PLWX 44676

Ship Date: June 15, 1992

Order No.: 0011894-004

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.064
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
21	17	22	23

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.6
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.18
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	2.9	22.4	26.4	22.1	13.6	10.1	2.5

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
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PVC RAILCAR ANALYSIS

Load Date: 6-11-92 Product: 5385 Car No.: 44676
 Time Logged In: 0100 Logged In By: M.T Silo(s): 676-677
 Ship Date: 6/15 Order No: 11894-004 Customer: IPC

No Metal

Compartment	CA C		CA C		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.18		.18		.15	
Contamination	BL	12	10		9		15	
	BR	9	7		13		8	
Bulk Density	.581		.582		.583		.576	
BD after Fluff								
Hard Particle 5	4							
7	3.4							
Viscosity	.931							
RVCM	.064							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	1.46	11.20	13.21	11.15	6.80	5.03	1.24
%	0.0	2.9	22.4	26.4	22.4	13.6	10.1	2.5

Drytime: 5.0 Static Flow: 0.196 Avg. Microns: 156.6

Color L: 100.61 a 0.18 b 1.64

Technician: D.T. HPL

VAB.0001201249

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A

CERTIFICATE OF ANALYSIS

Date: June 16, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Attention: Quality Control Manager

Railcar No.: UTCX 46522

Ship Date: June 12, 1992

Order No.: 0011894-003

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.362
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
6	11	7	10

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.1
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.586
Moisture, %	ABR-1A	0.30 Max.	0.15
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

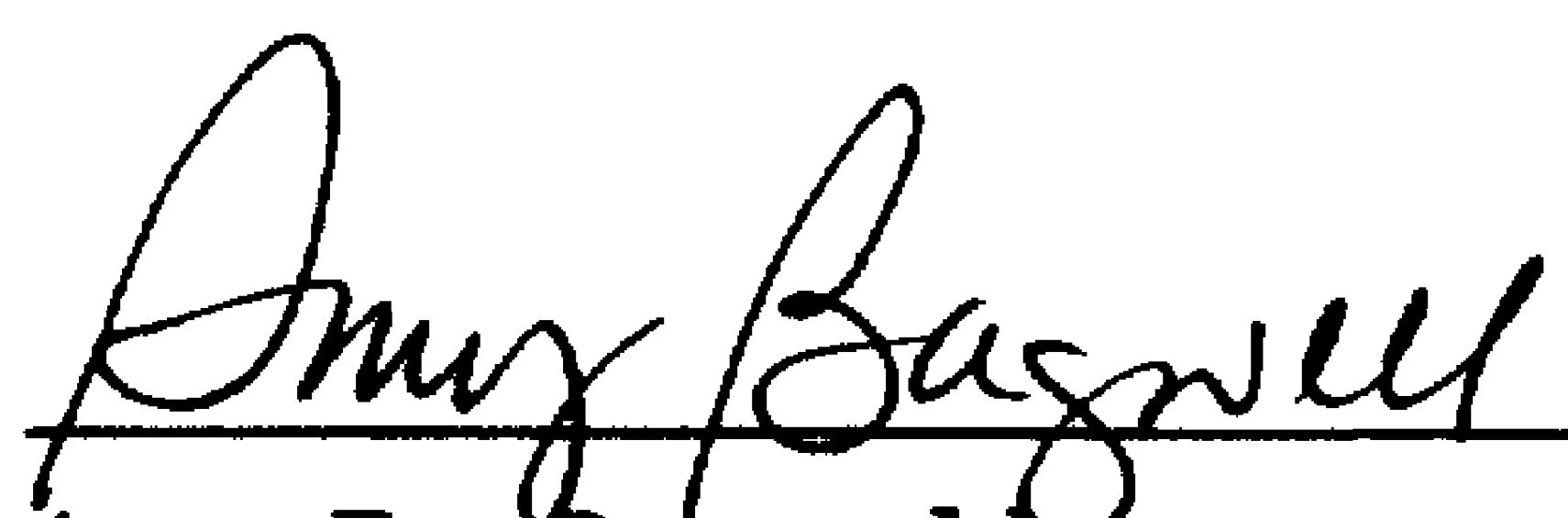
MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	4.2	33.0	26.3	17.9	10.2	6.5	1.9

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



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VAB.0001201250

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PVC RAILCAR ANALYSIS

Load Date: 6/8/92 Product: 5385 Car No.: 46522
 Time Logged In: 1330 Logged In By: KEZ Silo(s): 676/685
 Ship Date: 6/12 Order No: 0011894-003 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.15		.12		.13	
Contamination	BL							
	BR							
	<u>2</u>	—	<u>4</u>	—	<u>5</u>	—	<u>6</u>	—
	<u>4</u>		<u>7</u>		<u>2</u>		<u>4</u>	
Bulk Density	.588		.585		.586		.583	
BD after Fluff								
Hard Particle 5	<u>12</u>	—	—	—	—	—	—	—
7	<u>2 MB</u>							
Viscosity	.931							
RVCM	.362							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.11</u>	<u>16.52</u>	<u>13.13</u>	<u>9.00</u>	<u>5.08</u>	<u>3.27</u>	<u>.93</u>
%	<u>0.0</u>	<u>4.2</u>	<u>33.0</u>	<u>26.3</u>	<u>17.9</u>	<u>10.2</u>	<u>6.5</u>	<u>1.9</u>

Drytime: 4.9 Static Flow: 0 / 8.1 Avg. Microns: 170.4

Color L: 101.25 a .01 b 1.18

Technician: Matt MB

VAB.0001201251

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A

CERTIFICATE OF ANALYSIS

Date: June 16, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5305

VISTA

Attention: Quality Control Manager

Railcar No.: PLCX 43394

Ship Date: June 12, 1992

Order No.: 0011897-001

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.72
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.185
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

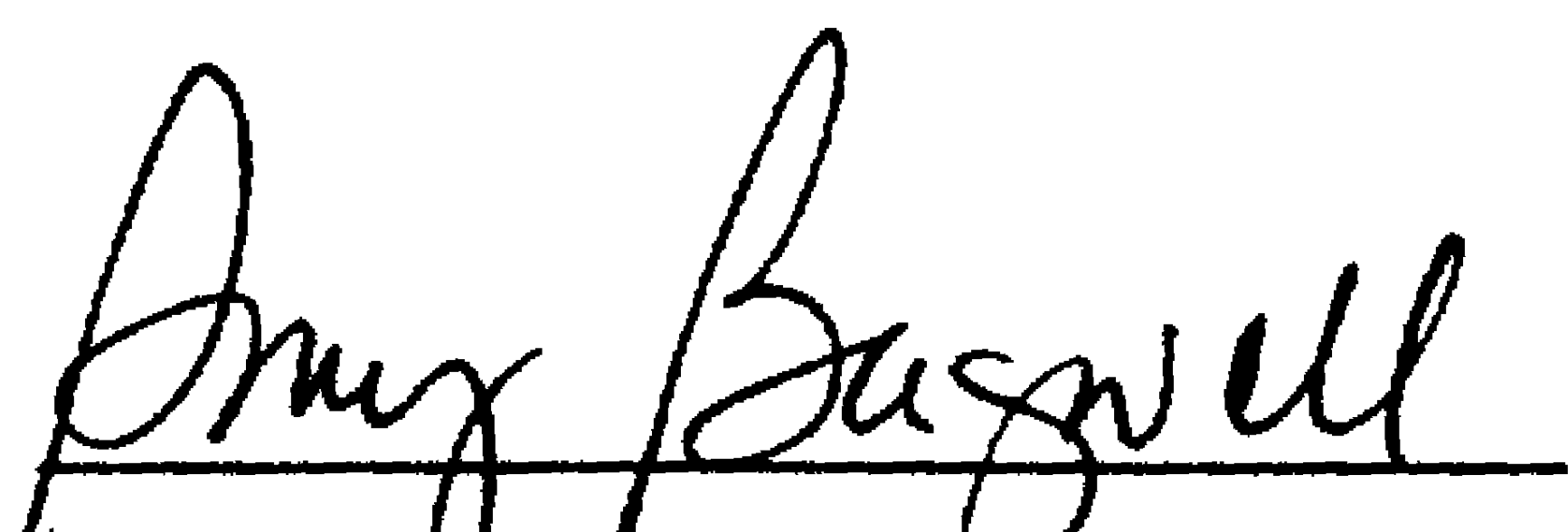
A	CA	CB	B
19	19	15	11

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.529
Moisture, %	ABR-1A	0.30 Max.	0.17
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.4	15.2	27.7	28.9	16.6	8.0	3.2

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201252

Vista Polymers

Highway 25

Aberdeen, MS 39730^A

PVC RAILCAR ANALYSIS

Load Date: 4-26-92 Product: 5305 Car No.: 43394
 Time Logged In: 1700 Logged In By: M.T. Silo(s): 688, 687
 Ship Date: 6/12 Order No: 11897-001 Customer: IPC ~~44~~

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.08		.12		.38 <u>.17</u>		.12	
Contamination	BL BR	<u>10</u> <u>9</u>	—	<u>10</u> <u>9</u>	—	<u>8</u> <u>7</u>	<u>6</u> <u>5</u>	—
Bulk Density	.534		.526		.516		.538	
BD w/antistat								
Viscosity	.722		.723		.721		.719	
RVCM	.185		.071		.178		.063	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>8/10</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.20</u>	<u>7.61</u>	<u>13.85</u>	<u>14.90</u>	<u>8.28</u>	<u>4.00</u>	<u>1.58</u>
%	<u>0.0</u>	<u>0.4</u>	<u>15.2</u>	<u>27.7</u>	<u>28.9</u>	<u>16.6</u>	<u>8.0</u>	<u>3.2</u>

Avg. Microns: 146.1% Glassies: <1%Color L: 99.51 a 0.52 b 1.61Static Flow: 0, 8.4Technician: D.T. + HPL

CERTIFICATE OF ANALYSIS

Date: June 11, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

Railcar No.: ACFX 53140

Attention: Quality Control Manager

Order No.: 0011894-002

Ship Date: June 8, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.111
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
8	14	8	12

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	10.2
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.580
Moisture, %	ABR-1A	0.30 Max.	0.10
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

MESH

% ON

40	60	80	100	120	140	200	PAN
0.00	0.8	14.2	21.9	25.5	18.4	15.5	3.7

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201254

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-29-92Product: 5385Car No.: 53140Time Logged In: 0315Logged In By: P.T.Silo(s): 676+677Ship Date: 6/8Order No: 11894-002Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.07		.10		.06	
Contamination	BL	2	4		3		4	
	BR	6	10		5		8	
Bulk Density	.577		.588		.584		.570	
BD after Fluff								
Hard Particle 5	6							
7	26							
Viscosity	.931							
RVCM	.111							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.42</u>	<u>7.09</u>	<u>10.93</u>	<u>12.97</u>	<u>9.18</u>	<u>7.77</u>	<u>1.85</u>
%	<u>0.0</u>	<u>.8</u>	<u>14.2</u>	<u>21.9</u>	<u>25.5</u>	<u>18.4</u>	<u>15.5</u>	<u>3.7</u>

Drytime: 4.9Static Flow: 0 110.2 Avg. Microns: 140.2Color L: 100.49 a .12 b 1.22Technician: Get JS

VAB.0001201255

Vista Polymers
A Division of
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Highway 25
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CERTIFICATE OF ANALYSIS

Date: June 8, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: ACFX 41184

Attention: Quality Control Manager

Order No.: 0011898-000

Ship Date: June 2, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.024
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

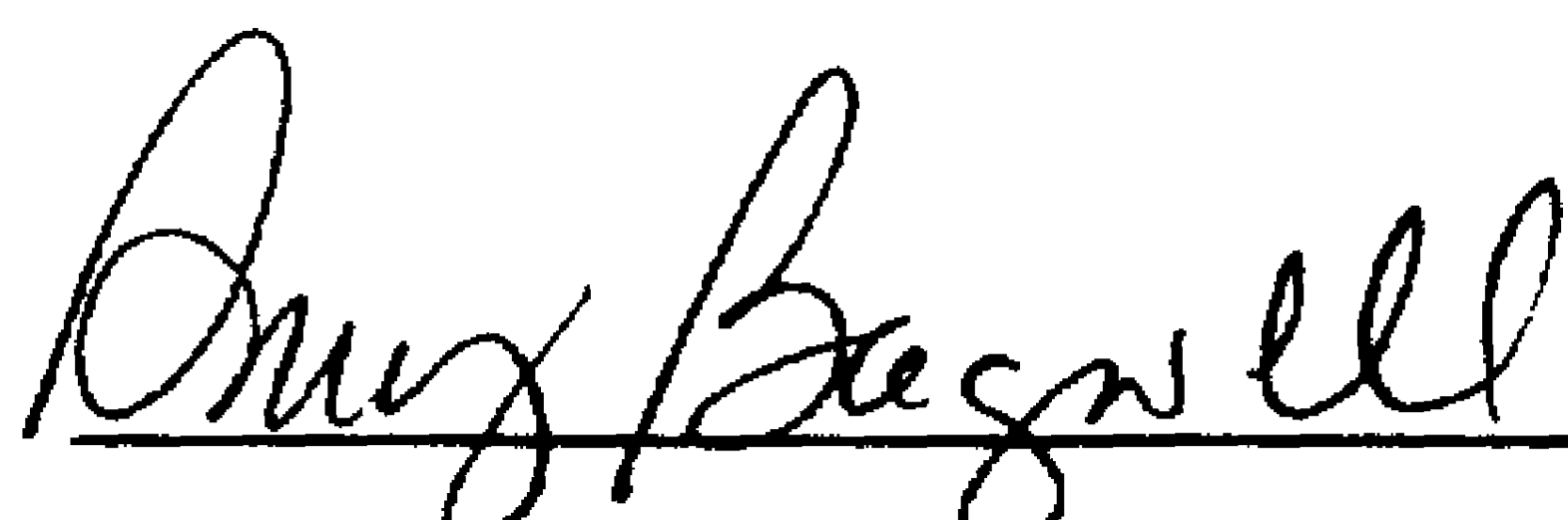
A	CA	CB	B
10	11	12	4

Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.516
Moisture, %	ABR-1A	0.30 Max.	0.24
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.2	34.5	31.0	17.9	7.9	4.9	1.6

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



Amy E. Bagwell
Laboratory Supervisor/Lead

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Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 6-1-92Product: 5415Car No.: 41184Time Logged In: 12:00Logged In By: TESilo(s): 690Ship Date: 6/2Order No: 11898-001Customer: IPCNo Metal

Compartment	A		CA		CB		B		
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	
Moisture %	.24		.24		.24		.24		
Contamination	BL	<u>5</u>	<u>4</u>	<u>5</u>	<u>3</u>	<u>6</u>	<u>6</u>	<u>2</u>	<u>8</u>
	BR	<u>5</u>	<u>3</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>8</u>	<u>2</u>	<u>7</u>
Bulk Density	.518		.518		.510		.516		
Hard Particle	5	<u>1</u>							
	7	1 P.C.							
Viscosity	1.014								
RVCM	.024								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.08</u>	<u>17.25</u>	<u>15.51</u>	<u>8.80</u>	<u>3.95</u>	<u>2.45</u>	<u>0.82</u>
%	<u>0.0</u>	<u>2.2</u>	<u>34.5</u>	<u>31.0</u>	<u>17.9</u>	<u>7.9</u>	<u>4.9</u>	<u>1.6</u>

Drytime: 4.9Static Flow: 0.92Avg. Microns: 170.3Color L: 101.07 a 0.07 b 1.24METS: 9620, 124.1%Technician: DET. HSL

VAB.0001201257

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Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: June 8, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Manager

Railcar No.: VIPX 45850

Ship Date: June 2, 1992

Order No.: 0011897-000

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.73
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.036
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

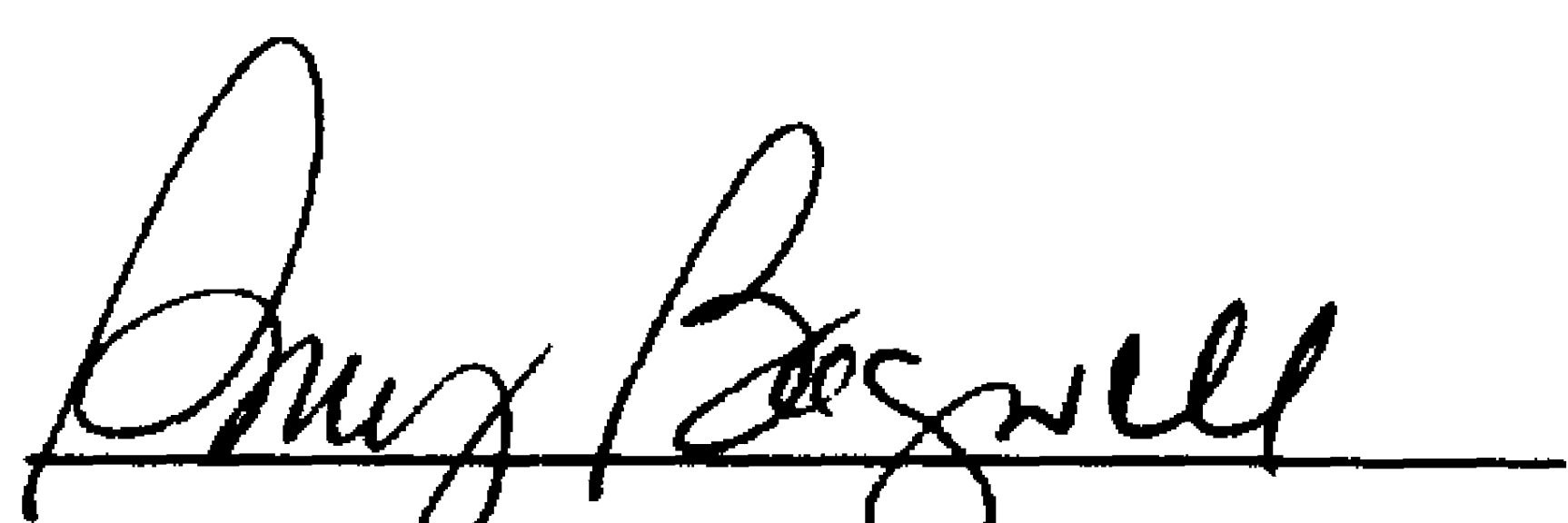
A	CA	CB	B
11	13	10	37

Dry Flow, Seconds	ABR-8	15 Sec. Max.	10.5
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.525
Moisture, %	ABR-1A	0.30 Max.	0.16
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.0	0.1	11.5	22.8	29.8	21.5	11.6	2.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201258

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 3-12-92Product: 5305Car No.: ~~75850~~Time Logged In: 2145Logged In By: ESSilo(s): 684Ship Date: 6/2/92Order No: 11897-000Customer: ~~Phillips~~ IPC

No Metal				Reload				
Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture					.16			
Contamination	BL				3			
	BR	—	—	—	7	—	—	—
Bulk Density					.540			
BD w/antistat								
Viscosity					.723			
RVCM					.036			
Tappi Test Contamination Composite	.06 or less			.07 ----- .15			.20 ----- .60	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.06</u>	<u>5.74</u>	<u>11.41</u>	<u>15.01</u>	<u>10.73</u>	<u>5.81</u>	<u>1.33</u>
%	<u>0.0</u>	<u>0.1</u>	<u>11.5</u>	<u>22.8</u>	<u>29.8</u>	<u>21.5</u>	<u>11.6</u>	<u>2.7</u>

CPA: _____

% Glassies: _____

Avg. Microns: _____

Color L: 99.15 a 0.36 b 1.72Static Flow: 0 / 7.8Technician: Co + ES

PVC RAILCAR ANALYSIS

Load Date: 12-26-91

Product:

5305

Car No.: 45850Time Logged In: 1800Logged In By: ESShip Date: _____ Silo(s): 676, 688, 687

Customer: _____

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.04		.12		0.12	.51	.19	
Contamination Syntron Method	4/7		2/11		3/8		9/28	
Wet Method								
Bulk Density	.527		.525		.527		.523	
BD w/antistat					Per 513			
Viscosity	.733		.737		.730		.736	
RVCM	.001		.006		.012		.005	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/11							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.0</u>	<u>.92</u>	<u>5.73</u>	<u>12.38</u>	<u>15.35</u>	<u>13.28</u>	<u>2.04</u>
% P	<u>0.0</u>	<u>0.0</u>	<u>1.8</u>	<u>11.5</u>	<u>25.3</u>	<u>30.7</u>	<u>26.6</u>	<u>4.1</u>

Static Flow: 0 110.5 % Glassies: 41.90 Avg. Microns: 118.0Color L: 99.35 a 0.44 b 1.83 CPA: 18.9Technician: MIT + RH

CERTIFICATE OF ANALYSIS

Date: June 8, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: UTCX 48029

Attention: Quality Control Manager

Order No.: 0011894-001

Ship Date: June 4, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.169
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
16	20	16	12

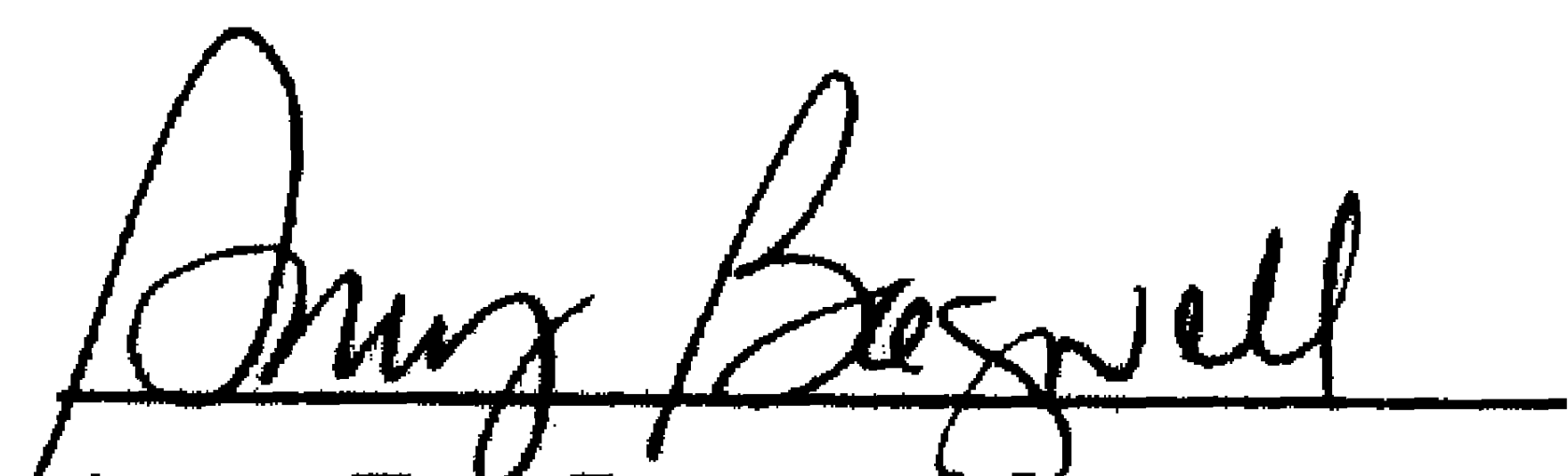
Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.576
Moisture, %	ABR-1A	0.30 Max.	0.12
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.4	13.8	26.4	26.4	16.5	13.1	3.4

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201261

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-29-92 Product: 5385 Car No.: 48029
 Time Logged In: 0200 Logged In By: MT Silo(s): 676-677-680
 Ship Date: 6/4 Order No: 0011894-001 Customer: Type I IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.11		.10		.08	
Contamination	BL	<u>4</u>	—	<u>5</u>	—	<u>4</u>	—	<u>3</u>
	BR	<u>12</u>		<u>15</u>		<u>12</u>		<u>9</u>
Bulk Density	.581		.572		.583		.567	
BD after Fluff								
Hard Particle 5	<u>9</u>	—	—	—	—	—	—	—
	7	<u>2</u>						
Viscosity	.934 ^{TE}							
RVCM	.169							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.22</u>	<u>6.91</u>	<u>13.18</u>	<u>13.17</u>	<u>8.23</u>	<u>6.55</u>	<u>1.68</u>
%	<u>0.0</u>	<u>0.4</u>	<u>13.8</u>	<u>26.4</u>	<u>26.4</u>	<u>16.5</u>	<u>13.1</u>	<u>3.4</u>

Drytime: 4.8 Static Flow: 0.89 Avg. Microns: 142.1

Color L: 99.72 a 0.12 b 1.78

Technician: TE - JPS

VAB.0001201262

Vista Polymers
A Division of
Vista Chemical Company

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

A

CERTIFICATE OF ANALYSIS

Date: June 8, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: PLCX 43278

Attention: Quality Control Manager

Order No.: 0011894-000

Ship Date: June 2, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.040
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
16	12	11	14

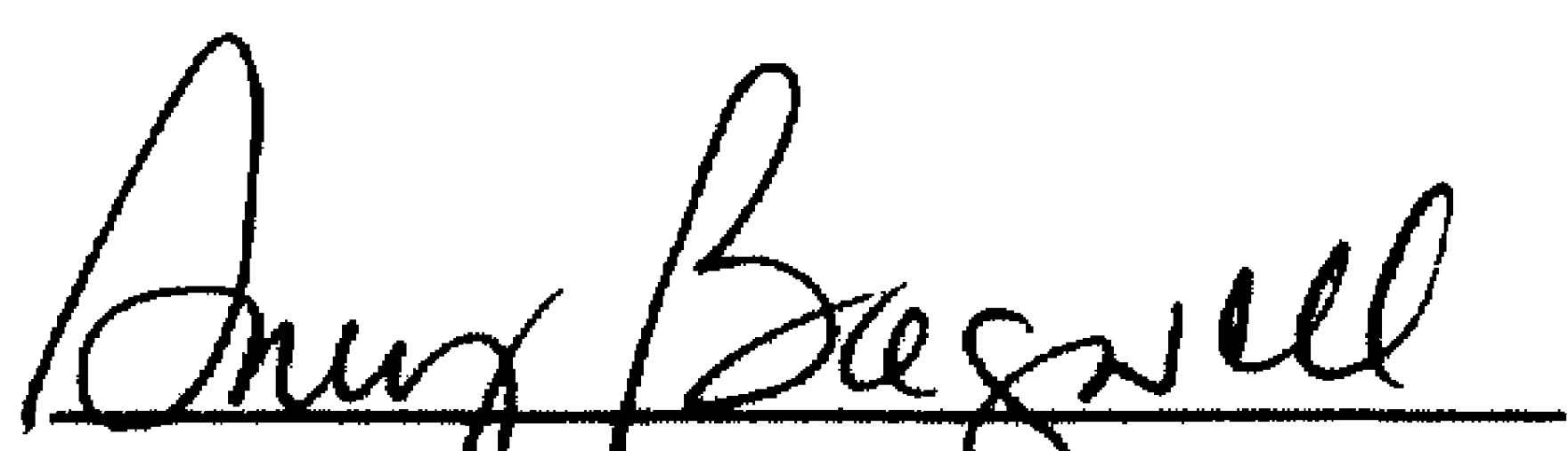
Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.8
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.576
Moisture, %	ABR-1A	0.30 Max.	0.13
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.6	15.1	26.2	26.3	16.3	12.5	3.0

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201263

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-28-92Product: 5385Car No.: 43278Time Logged In: 1700Logged In By: COSilo(s): 676-677-685Ship Date: 6/2Order No: 11894-000Customer: Type I IPC

NOT MEAN!

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.12		.10	
Contamination	BL		3		4		2	
	BR		9		7		12	
Bulk Density	.576		.578		.577		.574	
BD after Fluff								
Hard Particle 5	.11							
7	3							
Viscosity	TE .929							
RVCN	.040							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.28</u>	<u>7.53</u>	<u>13.11</u>	<u>13.33</u>	<u>8.14</u>	<u>6.24</u>	<u>1.50</u>
%	<u>0.0</u>	<u>0.6</u>	<u>15.1</u>	<u>26.2</u>	<u>26.3</u>	<u>16.3</u>	<u>12.5</u>	<u>3.0</u>

Drytime: 4.8Static Flow: 0 / 9.8Avg. Microns: 144.2Color L: 99.73 a 0.06 b 1.81Technician: TE-JPS

VAB.0001201264

CERTIFICATE OF ANALYSIS

Date: June 2, 1992

Customer: Intex Plastics Corp.
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: VIPX 45908

Attention: Quality Control Manager

Order No.: 0010549-006

Ship Date: May 29, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.136
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
14	10	11	15

Hard Particles @ 7 Mins.	ABR-12	15 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.582
Moisture, %	ABR-1A	0.30 Max.	0.04
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.7	22.6	28.9	22.9	12.5	9.8	2.6

Brabender Dry Time, Mins. ABR-7 6.0 Mins. Max. 4.7

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201265

Vista Polymers

Highway 25

Aberdeen, MS 39730

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PVC RAILCAR ANALYSIS

Load Date: 5-28-92Product: 5385Car No.: 45900Time Logged In: 1700Logged In By: COSilo(s): 676-677-678Ship Date: 5/29Order No: 10549-006Customer: IPC*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.03		.04		.02	
Contamination	BL							
	BR							
	9	—	12	—	10	—	10	—
	12		8		7		8	
Bulk Density	.574		.584		.582		.588	
BD after Fluff								
Hard Particle 5	8	—	—	—	—	—	—	—
7	2 wt							
Viscosity	.934							
RVCM	.136							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.34</u>	<u>11.28</u>	<u>14.46</u>	<u>11.30</u>	<u>6.27</u>	<u>4.90</u>	<u>1.30</u>
% P	<u>00</u>	<u>.7</u>	<u>22.6</u>	<u>28.9</u>	<u>22.9</u>	<u>12.5</u>	<u>9.8</u>	<u>2.6</u>

Drytime: 4.7Static Flow: 0, 9.4Avg. Microns: 153.3Color L: 100-22 a 0.05 b 1.68Technician: M.T & R.H

VAB.0001201266

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: June 2, 1992

Customer: Intex Plastics
Corinth Division
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: UTCX 46497

Attention: Quality Control Manager

Order No.: 0010547-003

Ship Date: May 27, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.01
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.000
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
15	13	14	14

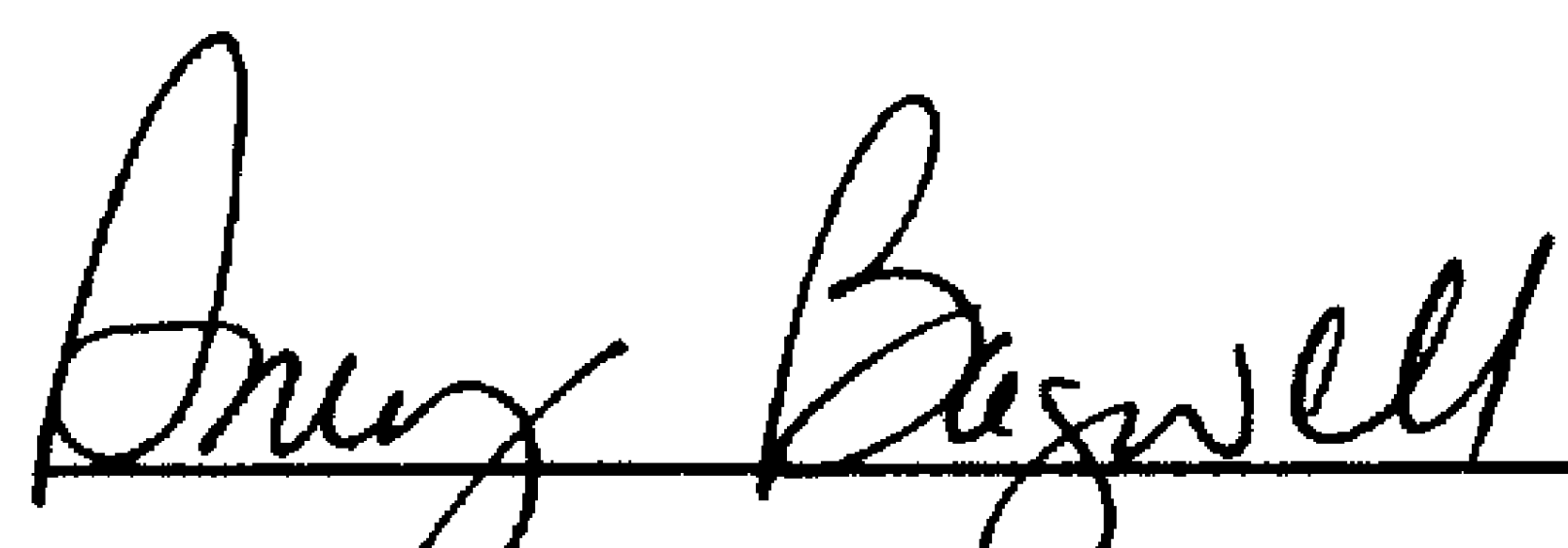
Hard Particles @ 7 mins.	ABR-12	5 Max.	1
Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.508
Moisture, %	ABR-1A	0.30 Max.	0.14
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	2.0	36.6	29.6	16.8	7.7	5.6	1.7

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 4.9


Amy E. Bagwell
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001201267

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-26-92 Product: 5415 Car No.: 46497
 Time Logged In: 1815 Logged In By: PT Silo(s): 690+691
 Ship Date: 5/27/92 Order No: 10547-003 Customer: INTER
QME

NO metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.13		.13		.12		.14	
Contamination	BL							
	BR							
Bulk Density	.512		.507		.512		.501	
Hard Particle	5							
	7							
Viscosity	1.014							
RVCM	.020							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.98</u>	<u>18.30</u>	<u>14.80</u>	<u>8.05</u>	<u>3.84</u>	<u>2.81</u>	<u>.86</u>
% P	<u>0.0</u>	<u>2.0</u>	<u>36.6</u>	<u>29.6</u>	<u>16.8</u>	<u>7.7</u>	<u>5.6</u>	<u>1.7</u>

Drytime: 4.9 Static Flow: 0 12.2 Avg. Microns: 170.8

Color L: 100.75 a 0.12 b 1.22

METS: 9620, 119.0%

Technician: M.T. & K.H.

VAB.0001201268

CERTIFICATE OF ANALYSIS

Date: May 28, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: PLWX 44668

Attention: Quality Control Manager

Order No.: 0010549-005

Ship Date: May 27, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.90 - 0.95	0.94
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Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.077
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Contamination, BLK + BRN	ABR-5A	40 Total	
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Total Black + Brown

A	CA	CB	B
14	10	11	15

Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
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Dry Flow, Seconds	ABR-8	15 Sec. Max.	9.4
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Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
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Moisture, %	ABR-1A	0.30 Max.	0.17
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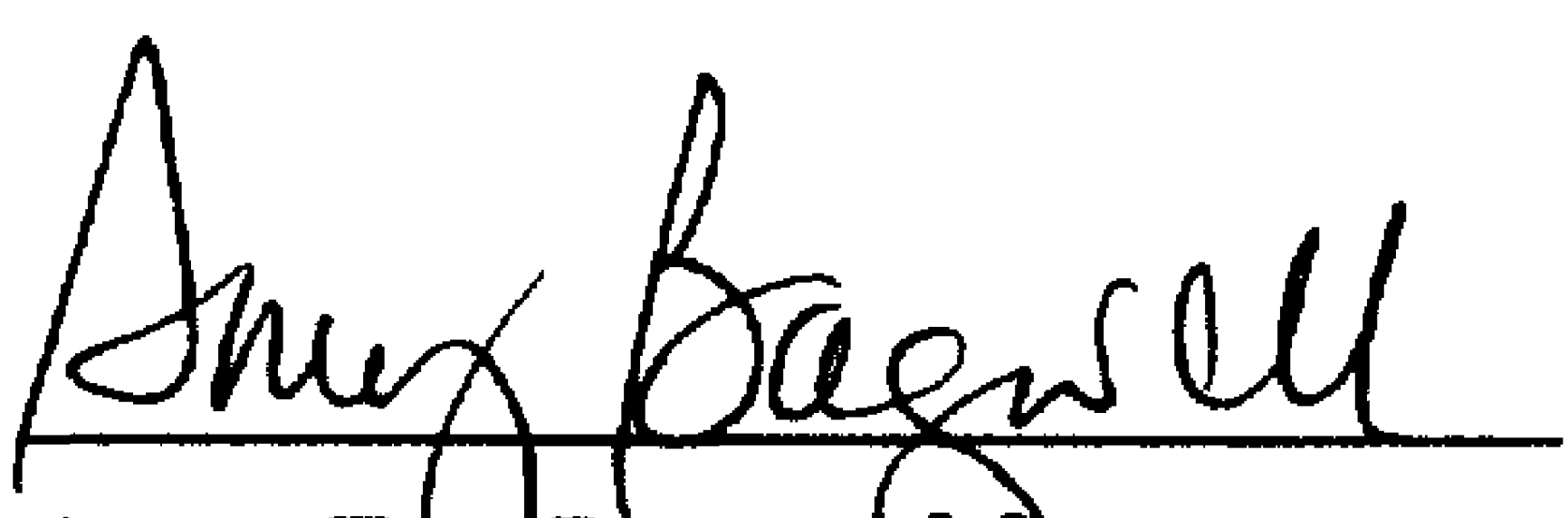
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	
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% ON

40	60	80	100	120	140	200	PAN
0.00	0.3	15.4	29.0	25.3	15.2	11.8	3.0

Brabender Dry Time, Mins.	ABR-7	6.0 Mins. Max.	4.8
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Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201269

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 8-26-92Product: 5385Car No.: 44668Time Logged In: 0630Logged In By: TESilo(s): 676-677-685Ship Date: 5/27/92 Order No: 10549-005 Customer: Intex-Type INo Meta L

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.15		.17	
Contamination	BL							
	BR							
	10	—	8	—	7	—	5	—
	9		8		8		8	
Bulk Density	.576		.588		.582		.580	
BD after Fluff								
Hard Particle 5	12	—	—	—	—	—	—	—
7	3 P.P.							
Viscosity	.936							
RVCM	.077							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.15</u>	<u>7.68</u>	<u>14.48</u>	<u>12.91</u>	<u>7.60</u>	<u>5.92</u>	<u>1.48</u>
%	<u>0.0</u>	<u>0.3</u>	<u>15.4</u>	<u>29.0</u>	<u>25.3</u>	<u>15.2</u>	<u>11.8</u>	<u>3.0</u>

Drytime: 4.8Static Flow: 0 9.4Avg. Microns: 145.1Color L: 101.05 a 0.05 b 1.61Technician: J.T. + HDL

VAB.0001201270

Vista Polymers
A Division of
Vista Chemical Company

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Post Office Box 91

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

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CERTIFICATE OF ANALYSIS

Date: May 19, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Manager

Railcar No.: UTCX 46406

Ship Date: May 15, 1992

Order No.: 0010547-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	1.00 - 1.04	1.00
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.017
Contamination, BLK + BRN	ABR-5A	20 Total Max.	

Total Black + Brown

A	CA	CB	B
6	10	4	4

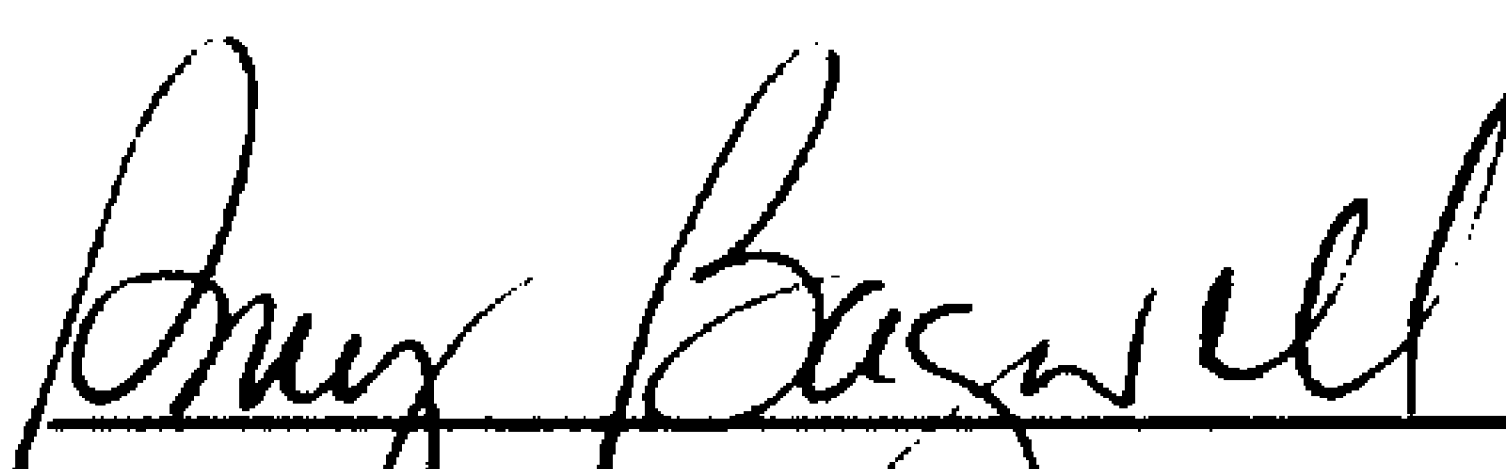
Hard Particles @ 7 mins.	ABR-12	5 Max.	2
Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.2
Bulk Density, gm/cc	ABR-2B	0.460 Min.	0.515
Moisture, %	ABR-1A	0.30 Max.	0.21
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh Max. 5.0 On Pan Max.	

% ON

40	60	80	100	120	140	200	PAN
0.00	3.9	44.8	26.3	13.5	5.9	4.1	1.5

Brabender Dry Time, Mins. ABR-7

6.0 Mins. Max. 5.0



Amy E. Bagwell
Laboratory Supervisor/Lead

(601) 369-3624

VAB.0001201271

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-12-92 Product: 5415 Car No.: 46406
 Time Logged In: 0500 Logged In By: MIT Silo(s): 690-691
 Ship Date: 5/15/92 Order No: 10547-002 Customer: IPC

No Metal

Compartment	A		CA		CB		B		
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	
Moisture %	.16		.12		.21		.21		
Contamination	BL	<u>4</u>	<u>6</u>	<u>7</u>	<u>6</u>	<u>3</u>	<u>5</u>	<u>2</u>	<u>6</u>
	BR	<u>2</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>3</u>
Bulk Density	.510		.518		.516		.514		
Hard Particle	5	<u>5</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	7	2 m.B.							
Viscosity	.998								
RVCM	.017								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.95</u>	<u>22.41</u>	<u>13.16</u>	<u>6.61</u>	<u>2.97</u>	<u>2.03</u>	<u>0.73</u>
%	<u>0.0</u>	<u>3.9</u>	<u>44.8</u>	<u>26.3</u>	<u>13.5</u>	<u>5.9</u>	<u>4.1</u>	<u>1.5</u>

Drytime: 5.0 Static Flow: 0 18.2 Avg. Microns: 1863

Color L: 101.02 a 0.04 b 1.30

METS: 9620, 119.0 %

Technician: D.T. + M.B.

CERTIFICATE OF ANALYSIS

Date: May 19, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: UTCX 46413

Attention: Quality Control Manager

Order No.: 0010549-004

Ship Date: May 15, 1992

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.90 - 0.95	0.93
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.144
Contamination, BLK + BRN	ABR-5A	40 Total	

Total Black + Brown

A	CA	CB	B
7	7	6	10

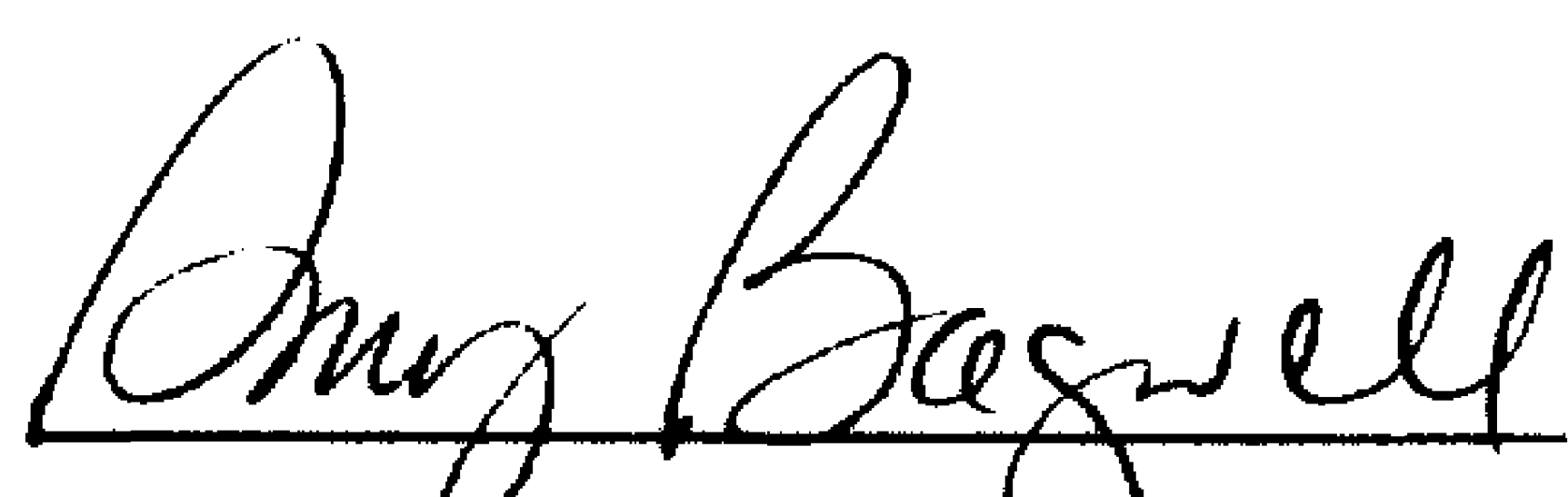
Hard Particles @ 7 Mins.	ABR-12	15 Max.	3
Dry Flow, Seconds	ABR-8	15 Sec. Max.	7.9
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.581
Moisture, %	ABR-1A	0.30 Max.	0.12
Particle Size Distribution	ABR-3	25.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	9.0	39.5	22.7	14.5	7.4	5.1	1.8

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

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

VAB.0001201273

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-11-92Product: 5385Car No.: 46413Time Logged In: 1630Logged In By: PTSilo(s): 676/677/685Ship Date: 5/15Order No: 10549-004Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.10		.10		.11	
Contamination	BL BR	<u>4</u> <u>3</u>	—	<u>2</u> <u>5</u>	—	<u>3</u> <u>3</u>	—	<u>4</u> <u>6</u>
Bulk Density	.581		.583		.579		.580	
BD after Fluff								
Hard Particle 5 7	<u>18</u> <u>3nd</u>	—	—	—	—	—	—	—
Viscosity	.934							
RVCM	.144							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>4.52</u>	<u>19.75</u>	<u>11.36</u>	<u>7.15</u>	<u>3.70</u>	<u>2.56</u>	<u>.89</u>
%	<u>0.0</u>	<u>9.0</u>	<u>39.5</u>	<u>22.7</u>	<u>14.5</u>	<u>7.4</u>	<u>5.1</u>	<u>1.8</u>

Drytime: 4.9Static Flow: 0 / 7.9Avg. Microns: 185.3Color L: 100.33 a .20 b 1.99Technician: MSA HA

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CERTIFICATE OF ANALYSIS

Date: May 19, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Manager

Railcar No.: UTCX 46403

Ship Date: May 15, 1992

Order No.: 0010531-002

<u>Property</u>	<u>Test Method</u>	<u>IPC Specification</u>	<u>Analysis</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	0.72
Residual VCM, ppm	ABGC-26	8.5 PPM Max.	0.112
Contamination, BLK + BRN	ABR-5A	60 Total	

Total Black + Brown

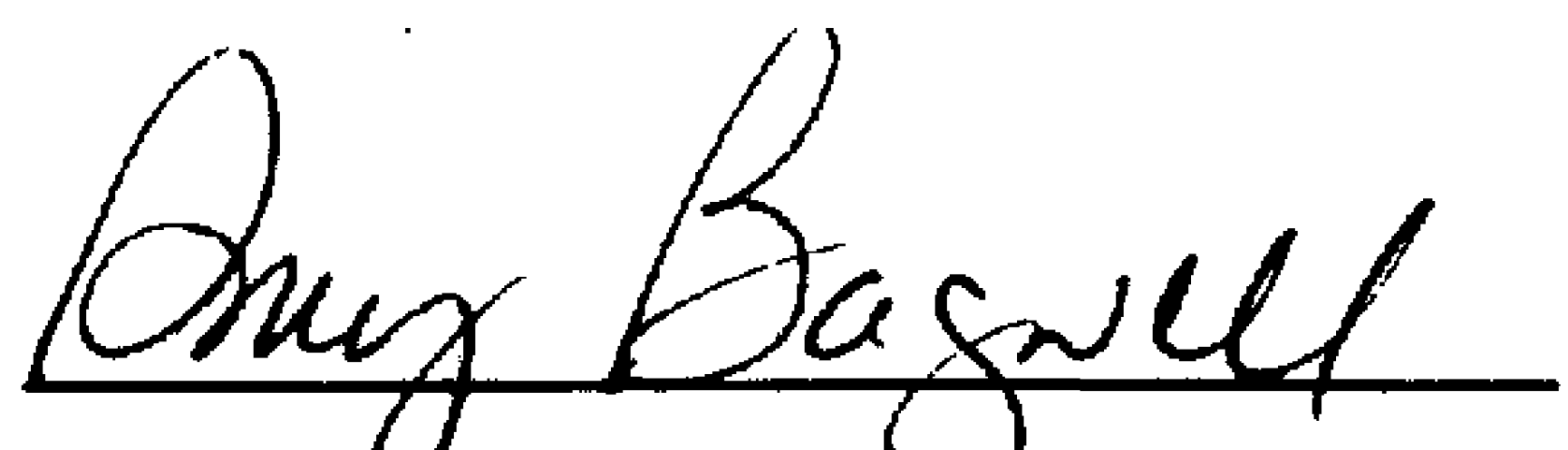
A	CA	CB	B
17	20	7	53

Dry Flow, Seconds	ABR-8	15 Sec. Max.	8.4
Bulk Density, gm/cc	ABR-2A	0.510 Min.	0.531
Moisture, %	ABR-1A	0.30 Max.	0.08
Particle Size Distribution	ABR-3	30.0 Thru 140 Mesh 5.0 Max on Pan	

% ON

40	60	80	100	120	140	200	PAN
0.00	0.2	7.5	20.8	31.1	23.8	13.2	3.4

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
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Vista Polymers

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Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-2-92Product: 5305Car No.: 46403Time Logged In: 2300Logged In By: J.T.Silo(s): 678, 687, 688Ship Date: 5/15Order No: 10531-002Customer: Inter DryNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.05		.08		.08		.07	
Contamination	BL							
	BR							
Bulk Density	.531		.538		.516		.537	
BD w/antistat								
Viscosity	.722		.722		.721		.722	
RVCM	.104		.112		.043		.111	
Tappi Test Contamination Composite								
		.06 or less		.07 ----- .15		.20 ----- .60		
		3/8						

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.08</u>	<u>3.75</u>	<u>10.42</u>	<u>15.65</u>	<u>11.88</u>	<u>6.59</u>	<u>1.70</u>
%	<u>0.0</u>	<u>0.2</u>	<u>7.5</u>	<u>20.8</u>	<u>31.1</u>	<u>23.8</u>	<u>13.2</u>	<u>3.4</u>

Avg. Microns: 133.7% Glassies: < 1%Color L: 99.44 a 0.47 b 1.60Static Flow: 0 / 8.4Technician: CP + ELS

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CERTIFICATE OF ANALYSIS

Date: May 13, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: PLWX 44726

Attention: Quality Control Manager

Order No.: 0010549-003

Ship Date: May 12, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.93

Residual VCM, ppm

ABGC-26

0.119

Contamination

ABR-5A

A	CA	CB	B
29	14	17	14

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

4

Dry Flow, Seconds

ABR-8

8.2

Bulk Density, gm/cc

ABR-2A

0.578

Moisture, %

ABR-1A

0.13

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	6.2	30.7	24.5	18.8	10.8	7.0	2.0

% ON

Brabender Dry Time, Mins.

ABR-7

5.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



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Vista Polymers

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A

PVC RAILCAR ANALYSIS

PLWX

Load Date: 5-9-92Product: 5385Car No.: 44724Time Logged In: 1500Logged In By: M.T.Silo(s): 677-685Ship Date: 5/12/92Order No: 0010549-003Customer: Integ

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.12		.11		.10	
Contamination	BL							
	BR							
Bulk Density	.576		.580		.577		.580	
BD after Fluff								
Hard Particle 5	16							
7	4 MMS							
Viscosity	.931							
RVCM	.119							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>3.10</u>	<u>15.36</u>	<u>12.26</u>	<u>9.56</u>	<u>5.40</u>	<u>3.50</u>	<u>.98</u>
%	<u>0.0</u>	<u>6.2</u>	<u>30.7</u>	<u>24.5</u>	<u>18.8</u>	<u>10.8</u>	<u>7.0</u>	<u>2.0</u>

Drytime: 5.0Static Flow: 0 / 8.2Avg. Microns: 171.6Color L: 100.43 a .27 b 1.83Technician: MHA HA

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CERTIFICATE OF ANALYSIS

Date: May 13, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: UTCX 46464

Attention: Quality Control Manager

Order No.: 0010549-002

Ship Date: May 11, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.93

Residual VCM, ppm

ABGC-26

0.057

Contamination

ABR-5A

A	CA	CB	B
14	10	11	15

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

6

Dry Flow, Seconds

ABR-8

8.9

Bulk Density, gm/cc

ABR-2A

0.583

Moisture, %

ABR-1A

0.02

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	4.6	35.2	25.6	18.2	9.2	5.7	1.5

% ON

Brabender Dry Time, Mins.

ABR-7

4.9

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



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Vista Polymers

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PVC RAILCAR ANALYSIS

Load Date: 5-9-92Product: 5385Car No.: 46464Time Logged In: 2400Logged In By: MDSilo(s): 677, 685Ship Date: 5/11/92Order No: 0010549-002Customer: IPCmetal (2)

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.02		.01		.01	
Contamination	BL	<u>3</u>	<u>2</u>		<u>4</u>		<u>3</u>	
	BR	<u>7</u>	<u>5</u>		<u>4</u>		<u>4</u>	
Bulk Density	.584		.588		.579		.581	
BD after Fluff								
Hard Particle 5	<u>35</u>							
7	<u>6 mt</u>							
Viscosity	.931							
RVCM	.057							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>2.31</u>	<u>17.60</u>	<u>12.81</u>	<u>8.14</u>	<u>4.61</u>	<u>2.86</u>	<u>.73</u>
% P	<u>0.0</u>	<u>4.6</u>	<u>35.2</u>	<u>25.6</u>	<u>18.2</u>	<u>9.2</u>	<u>5.7</u>	<u>1.5</u>

Drytime: 4.9Static Flow: 0.18.9Avg. Microns: 173.7Color L: 100.64 a 0.11 b 1.72Technician: M.T. & K.H.

CERTIFICATE OF ANALYSIS

VISTA

Date: May 11, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5305

Attention: Quality Control Manager

Railcar No.: GACX 73409

Ship Date: May 8, 1992

Order No.: 0010531-001

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.72
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Residual VCM, ppm	ABGC-26	0.051
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Contamination	ABR-5A	
Total Black + Brown		

A	CA	CB	B
14	14	11	11

Dry Flow, Seconds	ABR-8	9.2
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Bulk Density, gm/cc	ABR-2A	0.533
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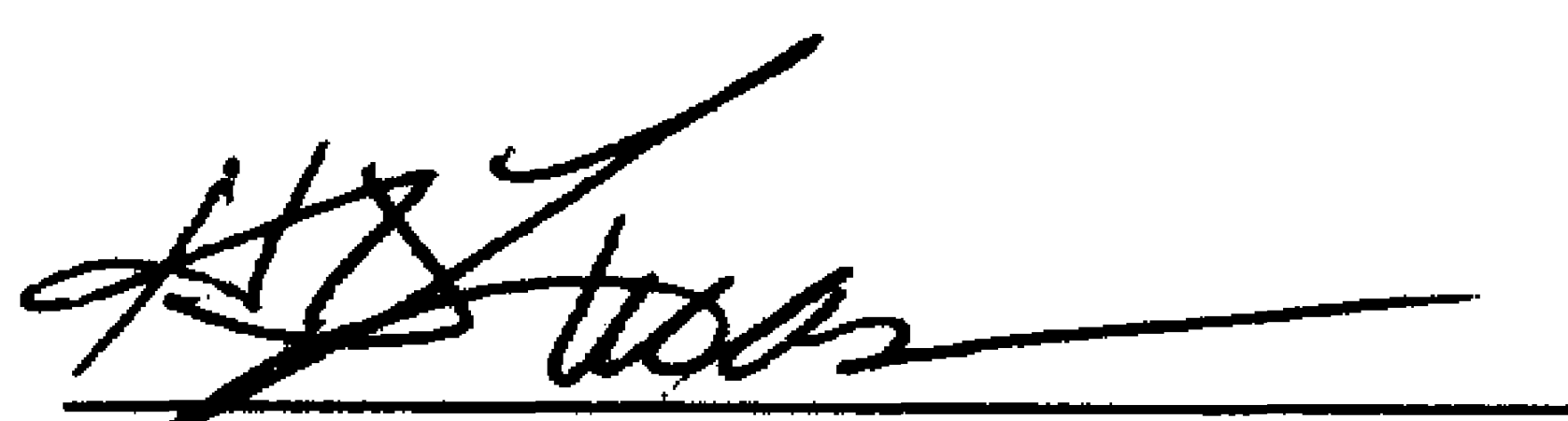
Moisture, %	ABR-1A	0.13
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Particle Size Distribution	ABR-3	
----------------------------	-------	--

% ON

40	60	80	100	120	140	200	PAN
0.00	0.0	6.2	18.1	28.0	24.9	18.0	4.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H.D. Lucas
Laboratory Supervisor

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Vista Polymers

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PVC RAILCAR ANALYSIS

Load Date: 4-8-92 Product: 5305 Car No.: GACX 73409
 Time Logged In: 0615 Logged In By: CO Silo(s): 678
 Ship Date: 5/8/92 Order No: 0010531001 Customer: IPC/Hwin

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.13		.12		.11		.13	
Contamination	BL							
	BR							
	<u>5</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>3</u>	<u>—</u>
	<u>9</u>		<u>10</u>		<u>7</u>		<u>8</u>	
Bulk Density	.532		.533		.530		.535	
BD w/antistat								
Viscosity	.716		.720		.720		.720	
RVCM	.041		.036		.046		.051	
Tappi Test Contamination Composite								
		.06 or less		.07 ----- .15		.20 ----- .60		
		<u>3/6</u>						

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.00</u>	<u>3.10</u>	<u>9.05</u>	<u>14.09</u>	<u>12.45</u>	<u>9.00</u>	<u>2.38</u>
%	<u>0.0</u>	<u>0.0</u>	<u>6.2</u>	<u>18.1</u>	<u>28.0</u>	<u>24.9</u>	<u>18.0</u>	<u>4.8</u>

Avg. Microns: 127.7% Glassies: <1%Color L: 99.03 a .38 b 1.49Static Flow: 0 / 8.4Technician: MATE

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CERTIFICATE OF ANALYSIS

VISTA

Date: May 11, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

Railcar No.: VIPX 45735

Attention: Quality Control Manager

Order No.: 0010547-001

Ship Date: May 8, 1992

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	1.02
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Residual VCM, ppm	ABGC-26	0.020
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Contamination	ABR-5A	
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Total Black + Brown

A	CA	CB	B
9	11	10	7

Hard Particles @ 7 mins.	ABR-12	1
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Dry Flow, Seconds	ABR-8	11.8
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Bulk Density, gm/cc	ABR-2B	0.507
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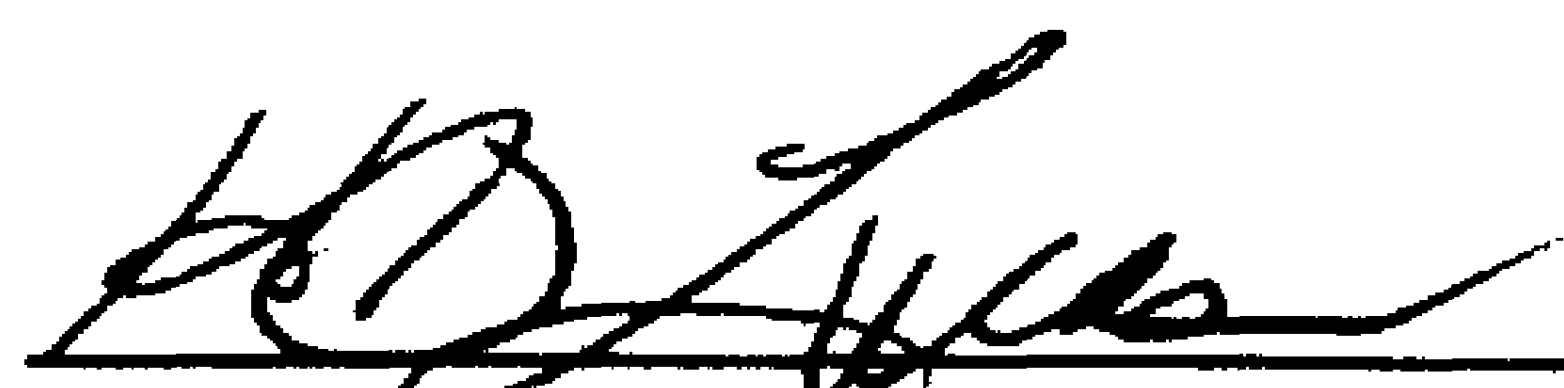
Moisture, %	ABR-1A	0.13
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Particle Size Distribution	ABR-3	
----------------------------	-------	--

% ON

40	60	80	100	120	140	200	PAN
0.00	1.0	33.1	31.8	18.4	8.4	5.7	1.6

Brabender Dry Time, Mins.	ABR-7	5.0
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H.D. Lucas
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Vista Polymers

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PVC RAILCAR ANALYSIS

VIPX

Load Date: 5-7-92 Product: 5415 Car No.: 45735
 Time Logged In: 0600 Logged In By: Co Silo(s): 690-691
 Ship Date: 5/8/92 Order No: 0010547-001 Customer: INTEX

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.12		.13		.13		.09	
Contamination	BL							
	BR							
	<u>3</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>3</u>	<u>2</u>	<u>2</u>
	<u>6</u>	<u>5</u>	<u>9</u>	<u>7</u>	<u>7</u>	<u>6</u>	<u>5</u>	<u>4</u>
Bulk Density	.508		.503		.511		.506	
Hard Particle	5							
	7							
	<u>3</u>	<u>1</u>						
	<u>1</u>	<u>25</u>						
Viscosity	1.020							
RVCM	.020							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.51</u>	<u>16.53</u>	<u>15.88</u>	<u>9.19</u>	<u>4.21</u>	<u>2.83</u>	<u>0.80</u>
%	<u>0.0</u>	<u>1.0</u>	<u>33.1</u>	<u>31.8</u>	<u>18.4</u>	<u>8.4</u>	<u>5.7</u>	<u>1.6</u>

Drytime: 5.0 Static Flow: 0/11.8 Avg. Microns: 166.6

Color L: 100.25 a 0.07 b 1.22

METS: 9451, 124.1 %

Technician: Co & Es

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CERTIFICATE OF ANALYSIS

VISTA

Date: May 8, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

Railcar No.: PLWX 44265

Attention: Quality Control Manager

Order No.: 0010549-001

Ship Date: May 5, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.93

Residual VCM, ppm

ABGC-26

0.026

Contamination

ABR-5A

A	CA	CB	B
14	10	11	15

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

2

Dry Flow, Seconds

ABR-8

7.7

Bulk Density, gm/cc

ABR-2A

0.573

Moisture, %

ABR-1A

0.08

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	6.0	24.0	21.0	18.4	13.0	13.2	4.4

% ON

Brabender Dry Time, Mins.

ABR-7

5.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H.D. Lucas
Laboratory Supervisor

VAB.0001201285

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-3-92Product: 5385Car No.: 44265Time Logged In: 0200Logged In By: D.T.Silo(s): 676 + 677Ship Date: 5/5/92Order No: 0010549-001Customer: TEP

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.06		.08		.06	
Contamination	BL BR	$\frac{3}{5}$	—	$\frac{1}{7}$	—	$\frac{2}{6}$	—	$\frac{3}{7}$
Bulk Density		.571		.573		.572		.577
BD after Fluff								
Hard Particle 5 7		$\frac{7}{3}$ JPS	—	—	—	—	—	—
Viscosity		.927						
RVCM		.026						
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.59</u>	<u>12.00</u>	<u>10.51</u>	<u>9.57</u>	<u>6.50</u>	<u>6.60</u>	<u>2.18</u>
%	<u>0.0</u>	<u>6.0</u>	<u>24.0</u>	<u>21.0</u>	<u>18.4</u>	<u>13.0</u>	<u>13.2</u>	<u>4.4</u>

Drytime: 5.0Static Flow: 0.7.7Avg. Microns: 159.4Color L: 100.61 a .24 b 1.82Technician: MYT JS

VAB.0001201286

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A

CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: VIPX 45750

Attention: Quality Control Manager

Order No.: 0010549-000

Ship Date: May 4, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.92

Residual VCM, ppm

ABGC-26

0.048

Contamination

ABR-5A

A	CA	CB	B
14	10	11	15

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

3

Dry Flow, Seconds

ABR-8

8.5

Bulk Density, gm/cc

ABR-2A

0.591

Moisture, %

ABR-1A

0.15

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	0.8	12.7	24.5	28.7	18.0	12.8	2.5

% ON

Brabender Dry Time, Mins.

ABR-7

5.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201287

PVC RAILCAR ANALYSIS

Load Date: 5-1-92Product: 5385Car No.: 45750Time Logged In: 1400Logged In By: COSilo(s): 685Ship Date: 5/4Order No: 10549-000Customer: IntexNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	<u>.07</u>		<u>.13</u>		<u>.15</u>		<u>.15</u>	
Contamination	BL <u>4</u>	—	3 <u>3</u>	—	6 <u>6</u>	—	3 <u>3</u>	—
	BR <u>10</u>		7 <u>7</u>		5 <u>5</u>		12 <u>12</u>	
Bulk Density	<u>.589</u>		<u>.588</u>		<u>.592</u>		<u>.595</u>	
BD after Fluff								
Hard Particle 5 7	<u>7</u> <u>3</u> P.P.	—	—	—	—	—	—	—
Viscosity	<u>.915</u>							
RVCM	<u>.048</u>							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.42</u>	<u>6.33</u>	<u>12.24</u>	<u>14.04</u>	<u>8.99</u>	<u>6.38</u>	<u>1.25</u>
%	<u>0.0</u>	<u>0.8</u>	<u>12.7</u>	<u>24.5</u>	<u>28.7</u>	<u>18.0</u>	<u>12.8</u>	<u>2.5</u>

Drytime: 5.0Static Flow: 0 18.5Avg. Microns: 142.3Color L: 100.69 a 0.27 b 1.85Technician: P.T. + HDL

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: May 6, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Manager

Railcar No.: VIPX 45833

Ship Date: May 1, 1992

Order No.: 0010531-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.72
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Residual VCM, ppm	ABGC-26	0.077
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Contamination	ABR-5A	
Total Black + Brown		

A	CA	CB	B
16	16	12	14

Dry Flow, Seconds	ABR-8	9.2
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Bulk Density, gm/cc	ABR-2A	0.516
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Moisture, %	ABR-1A	0.13
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.00	0.1	10.6	26.1	32.3	18.9	9.0	3.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



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Laboratory Supervisor

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VAB.0001201289

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4-25-92 Product: 5305 Car No.: 45833
 Time Logged In: 0100 Logged In By: DT Silo(s): 687+688
 Ship Date: 5/1/92 Order No: 10531-000 Customer: IPC/Hain

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.11		.13		.12		.10	
Contamination	BL							
	BR							
	<u>5</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>4</u>	<u>—</u>
	<u>11</u>		<u>12</u>		<u>9</u>		<u>10</u>	
Bulk Density	.515		.520		.512		.518	
BD w/antistat								
Viscosity	.723		.722		.724		.725	
RVCM	.077		.088		.071		.089	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>3/3</u>							

Screen Analysis

Mesh 40 60 80 100 120 140 200 Pan

Weight _____

% _____

Attached sheet

Avg. Microns: 140.8 % Glassies: <1%

Color L: 99.62 a .59 b 1.63 Static Flow: 0 / 9.2

Technician: MAX TE

Vista Polymers

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Aberdeen, MS 39730

PVC RAILCAR ANALYSIS OFFGRADE

Load Date: 4-25-92Product: 5305Car No.: 45833Time Logged In: 0100

Logged In By: _____

Silo(s): _____

Ship Date: _____ Order No: _____ Customer: _____

COMPARTMENT	A		CA		CB		B	
Moisture %								
Contamination	/		/		/		/	
Bulk Density								
Color "L"								
Color "a"								
Color "b"								
Static Flow	/		/		/		/	
Viscosity	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
RVCM								

Screen Analysis

Bottom

	Mesh	40	60	80	100	120	140	200	Pan
A	Weight	<u>0.00</u>	<u>.06</u>	<u>5.28</u>	<u>13.05</u>	<u>15.93</u>	<u>9.45</u>	<u>4.50</u>	<u>1.50</u>
	%	<u>0.0</u>	<u>0.1</u>	<u>10.6</u>	<u>26.1</u>	<u>32.3</u>	<u>18.9</u>	<u>9.0</u>	<u>3.0</u>
CA	Weight	<u>0.00</u>	<u>.02</u>	<u>5.59</u>	<u>12.98</u>	<u>15.49</u>	<u>9.60</u>	<u>4.73</u>	<u>1.54</u>
	%	<u>0.0</u>	<u>0.0</u>	<u>11.2</u>	<u>26.0</u>	<u>31.0</u>	<u>19.2</u>	<u>9.5</u>	<u>3.1</u>
CB	Weight	<u>0.00</u>	<u>0.07</u>	<u>9.14</u>	<u>15.87</u>	<u>14.10</u>	<u>6.86</u>	<u>2.77</u>	<u>1.16</u>
	%	<u>0.0</u>	<u>0.1</u>	<u>18.3</u>	<u>31.7</u>	<u>28.4</u>	<u>13.7</u>	<u>5.5</u>	<u>2.3</u>
B	Weight	<u>0.00</u>	<u>.04</u>	<u>6.72</u>	<u>13.35</u>	<u>14.63</u>	<u>8.78</u>	<u>4.73</u>	<u>1.68</u>
	%	<u>0.0</u>	<u>0.0</u>	<u>13.4</u>	<u>26.7</u>	<u>29.4</u>	<u>17.6</u>	<u>9.5</u>	<u>3.4</u>

Technician: MJ

VAB.0001201291

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Manager

Railcar No.: VIPX 45720

Ship Date: May 1, 1992

Order No.: 0010547-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	1.02
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Residual VCM, ppm	ABGC-26	0.032
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Contamination	ABR-5A	
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Total Black + Brown

A	CA	CB	B
14	12	12	14

Hard Particles @ 7 mins.	ABR-12	2
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Dry Flow, Seconds	ABR-8	8.8
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Bulk Density, gm/cc	ABR-2B	0.501
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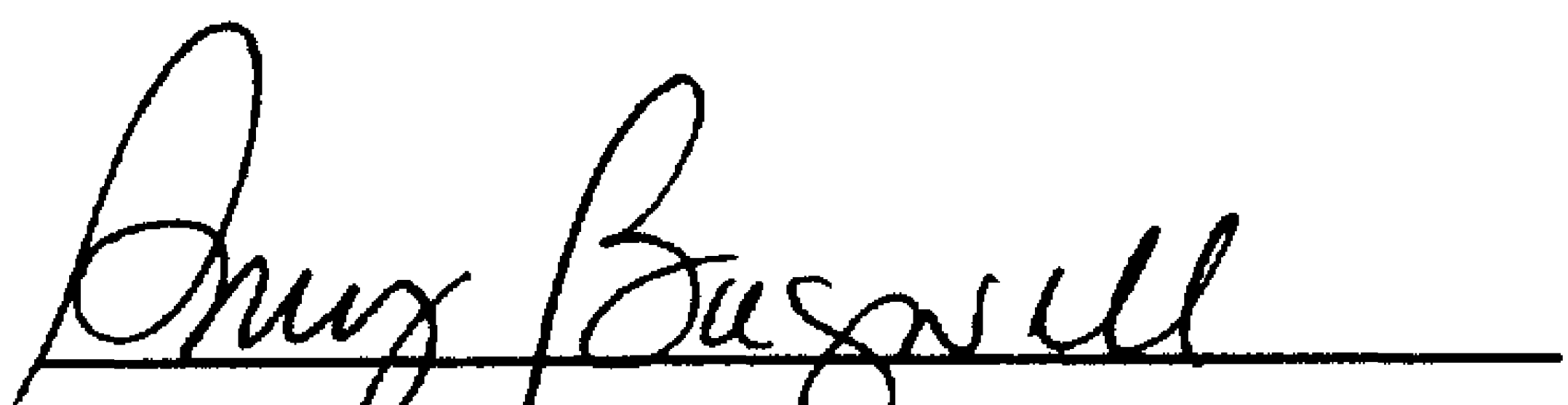
Moisture, %	ABR-1A	0.11
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.00	1.2	37.8	32.4	16.5	6.6	4.1	1.4

Brabender Dry Time, Mins.	ABR-7	4.7
---------------------------	-------	-----


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Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-30-92 Product: 5415 Car No.: 45720
 Time Logged In: 1800 Logged In By: ES Silo(s): 690 + 691
 Ship Date: 5/1 Order No: 10547-000 Customer: IPC

no metal

Compartment	A		CA		CB		B		
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	
Moisture %	.11		.07		.12		.08		
Contamination	BL	<u>6</u>	<u>8</u>	<u>4</u>	<u>6</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>4</u>
	BR	<u>8</u>	<u>8</u>	<u>8</u>	<u>5</u>	<u>8</u>	<u>5</u>	<u>8</u>	<u>8</u>
Bulk Density	.504		.505		.492		.501		
Hard Particle	5	<u>11</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	7	2 Del							
Viscosity	1.024								
RVCM	.032								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.58</u>	<u>18.91</u>	<u>16.22</u>	<u>8.32</u>	<u>3.28</u>	<u>2.06</u>	<u>.70</u>
% P	<u>0.0</u>	<u>1.2</u>	<u>37.8</u>	<u>32.4</u>	<u>16.5</u>	<u>6.6</u>	<u>4.1</u>	<u>1.4</u>

Drytime: 4.7 Static Flow: 0 18.8 Avg. Microns: 172.1

Color L: 100.50 a 0.27 b 1.45

METS: 9457, 121.6%

Technician: MT & RH

VAB.0001201293

Vista Polymers
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CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

Railcar No.: VIPX 45783

Attention: Quality Control Manager

Order No.: 0010058-002

Ship Date: April 30, 1992

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	1.02
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Residual VCM, ppm	ABGC-26	0.030
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Contamination	ABR-5A	
	Total Black + Brown	

A	CA	CB	B
17	7	9	9

Hard Particles @ 7 mins.	ABR-12	1
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Dry Flow, Seconds	ABR-8	11.5
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Bulk Density, gm/cc	ABR-2B	0.503
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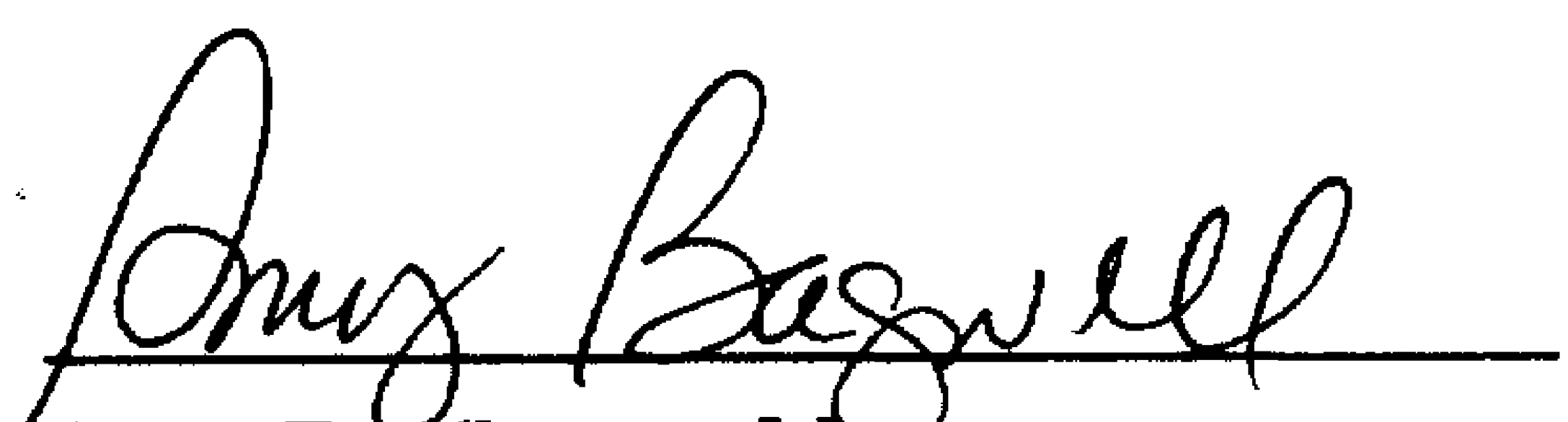
Moisture, %	ABR-1A	0.18
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.00	1.2	40.0	30.1	15.1	7.0	4.8	1.8

Brabender Dry Time, Mins.	ABR-7	5.0
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PVC RAILCAR ANALYSIS

Load Date: 4-27-92Product: 5415Car No.: 45783Time Logged In: 2400Logged In By: MAJSilo(s): 690, 691Ship Date: 4/30Order No: 10058-002Customer: IPCNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.15		.17		.17		.18	
Contamination	BL	<u>12</u>	<u>4</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>3</u>
	BR	<u>5</u>	<u>4</u>	<u>5</u>	<u>5</u>	<u>6</u>	<u>6</u>	<u>6</u>
Bulk Density	.498		.502		.506		.508	
Hard Particle	5	<u>1</u>	—	—	—	—	—	—
	7	<u>1 HPL</u>	—	—	—	—	—	—
Viscosity	1.023							
RVCM	.030							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.61</u>	<u>19.48</u>	<u>15.03</u>	<u>8.04</u>	<u>3.48</u>	<u>2.41</u>	<u>0.91</u>
%	<u>0.0</u>	<u>1.2</u>	<u>40.0</u>	<u>30.1</u>	<u>15.1</u>	<u>7.0</u>	<u>4.8</u>	<u>1.8</u>

Drytime: 5.0Static Flow: 0 / 11.5Avg. Microns: 172.4Color L: 101.01 a 0.09 b 1.12METS: 9136, 115.0%Technician: D.T.HDL

VAB.0001201295

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CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Manager

Railcar No.: UTCX 46474

Ship Date: April 29, 1992

Order No.: 0010423-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity

ABR-10

0.72

Residual VCM, ppm

ABGC-26

0.000

Contamination

ABR-5A

Total Black + Brown

A	CA	CB	B
12	17	12	11

Dry Flow, Seconds

ABR-8

8.8

Bulk Density, gm/cc

ABR-2A

0.530

Moisture, %

ABR-1A

0.06

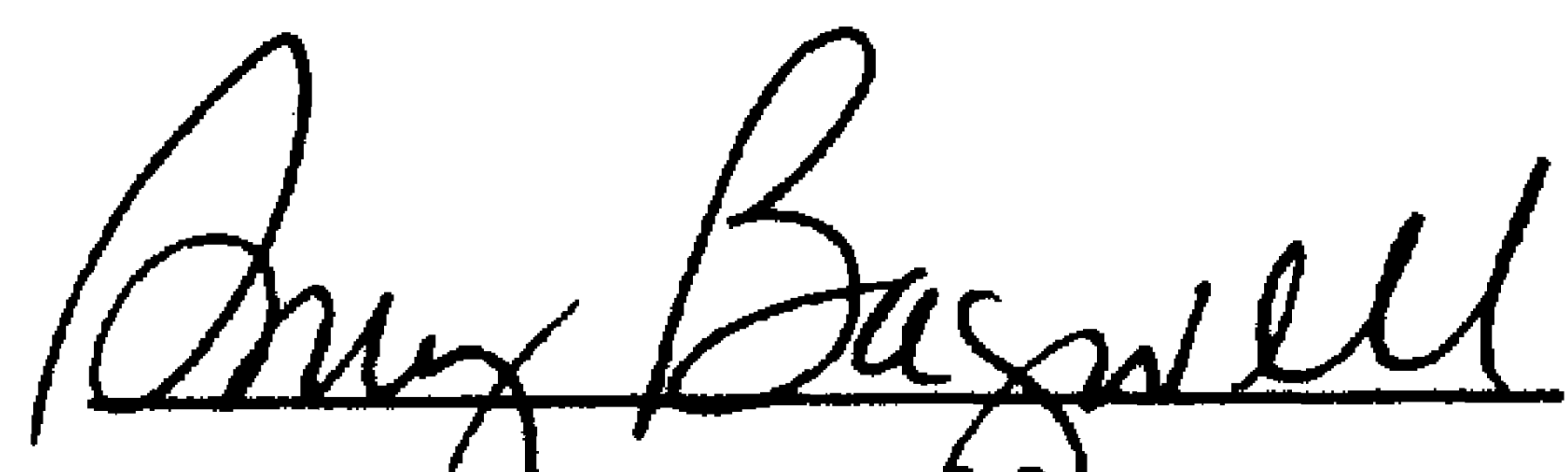
Particle Size Distribution

ABR-3

% ON

40	60	80	100	120	140	200	PAN
0.00	0.0	8.3	21.2	29.9	22.8	14.0	3.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

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VAB.0001201296

Vista Polymers

Highway 25

Aberdeen, MS 39730

not washed

PVC RAILCAR ANALYSIS

Load Date: 4-11-92Product: 5305Car No.: 46474Time Logged In: 0600Logged In By: MGSilo(s): 687-688Ship Date: 4/29Order No: 10423-000Customer: 1PC/CPA*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.06		.05		.01		.02	
Contamination ^{BL} _{BR}	$\frac{4}{8}$	—	$\frac{5}{12}$	—	$\frac{3}{9}$	—	$\frac{4}{7}$	—
Bulk Density	.525		.532		.528		.537	
BD w/antistat								
Viscosity	.720		.717		.718		.716	
RVCM	.043		.059		.047		.062	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	$\frac{4}{7}$							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.04</u>	<u>4.13</u>	<u>10.58</u>	<u>14.91</u>	<u>11.39</u>	<u>6.99</u>	<u>1.89</u>
% P	<u>00</u>	<u>0.0</u>	<u>1.3</u>	<u>21.2</u>	<u>29.9</u>	<u>22.1</u>	<u>14.0</u>	<u>3.1</u>

Avg. Microns: 133.5% Glassies: 21.0%Color L: 99.82 a 0.36 b 1.56Static Flow: 0.18.8Technician: MIT & RH

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: _____

Product: 5305Car No.: 46474

Time Logged In: _____

Logged In By: _____

Silo(s): _____

Ship Date: _____

Order No: _____

Customer: _____

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture								
Contamination BL BR	_____	_____	_____	_____	_____	_____	_____	_____
Bulk Density								
BD w/antistat								
Viscosity								
RVCM								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			

Screen Analysis

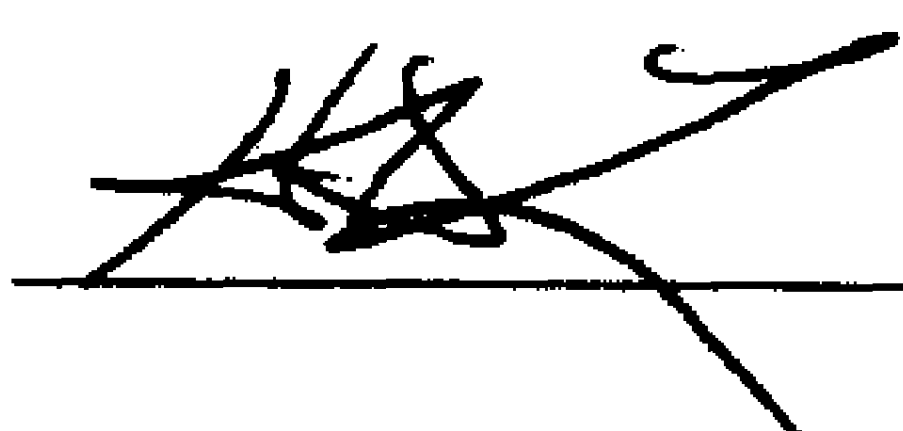
Mesh	40	60	80	100	120	140	200 ^{NEW}	Pan
Weight	<u>0.00</u>	<u>0.03</u>	<u>3.87</u>	<u>11.02</u>	<u>15.47</u>	<u>11.04</u>	<u>6.67</u>	<u>1.89</u>
%	<u>0.00</u>	<u>0.1</u>	<u>7.7</u>	<u>22.0</u>	<u>31.0</u>	<u>22.1</u>	<u>13.3</u>	<u>3.8</u>

Avg. Microns: _____

% Glassies: _____

Color L: _____ a _____ b _____

Static Flow: ____/____

Technician: 

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS
OFFGRADELead Date: 4/13/92Product: 5305
DEBOXCar No.: 46474

Time Logged In: _____

Logged In By: _____

Silo(s): _____

Ship Date: _____

Order No: _____

Customer: _____

COMPARTMENT	A		CA		CB		B	
Moisture %								
Contamination	/						/	
Bulk Density								
Color "L"								
Color "a"								
Color "b"								
Static Flow	/		/		/		/	
Viscosity	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
RVCM								

Screen Analysis

	Mesh	40	60	80	100	120	140	200	Pan
A	Weight								
	%	0	0.1	9.4	39.3	27.7	17.0	5.6	1.1
CA	Weight								
	%	0	0.1	9.3	36.3	26.6	18.5	7.6	1.7
CB	Weight								
	%	0	0.0	7.8	37.8	29.2	18.2	5.8	1.3
B	Weight								
	%	0	0.1	9.1	35.6	26.7	18.8	8.0	1.8

Technician: D.T.

VAB.0001201299

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A Division of
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CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: ACFX 41166

Attention: Quality Control Manager

Order No.: 0010058-001

Ship Date: April 28, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

1.01

Residual VCM, ppm

ABGC-26

0.025

Contamination

ABR-5A

A	CA	CB	B
11	11	10	10

Total Black + Brown

Hard Particles @ 7 mins.

ABR-12

1

Dry Flow, Seconds

ABR-8

8.8

Bulk Density, gm/cc

ABR-2B

0.521

Moisture, %

ABR-1A

0.25

Particle Size Distribution

ABR-3

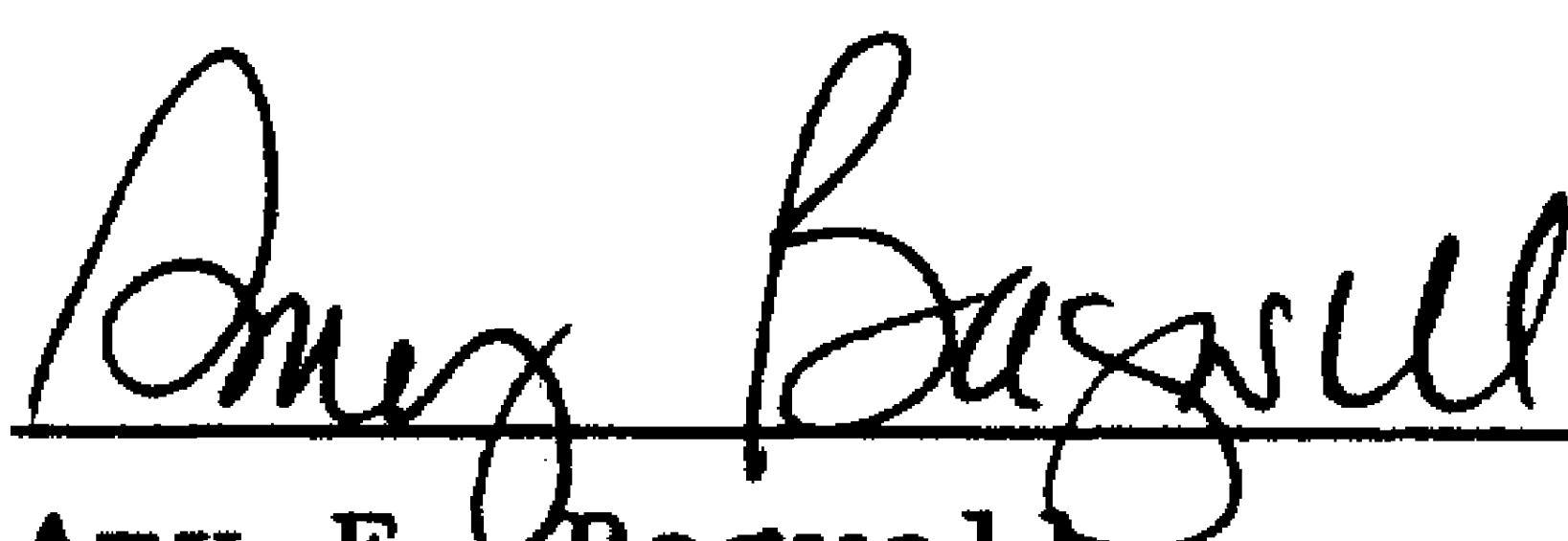
40	60	80	100	120	140	200	PAN
0.00	2.3	44.2	24.4	13.8	7.2	6.0	2.1

% ON

Brabender Dry Time, Mins.

ABR-7

4.7



Amy E. Bagwell
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Vista Polymers

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Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-19-92 Product: 5415 Car No.: 41166
 Time Logged In: 1600 Logged In By: ES Silo(s): 690 + 691
 Ship Date: 4/28 Order No: 10058-001 Customer: IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	<u>.22</u>		<u>.25</u>		<u>.23</u>		<u>.21</u>	
Contamination	BL <u>4</u>	<u>3</u>	<u>3</u>	<u>2</u>	<u>4</u>	<u>3</u>	<u>3</u>	<u>2</u>
	BR <u>7</u>	<u>8</u>	<u>8</u>	<u>9</u>	<u>6</u>	<u>8</u>	<u>7</u>	<u>8</u>
Bulk Density	<u>.520</u>		<u>.520</u>		<u>.525</u>		<u>.521</u>	
Hard Particle	5 <u>3</u>	—	—	—	—	—	—	—
	7 <u>1 P.P.</u>							
Viscosity	<u>1.013</u>							
RVCM	<u>.025</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.15</u>	<u>22.11</u>	<u>1222</u>	<u>6.64</u>	<u>3.58</u>	<u>3.00</u>	<u>1.05</u>
%	<u>0.00</u>	<u>2.3</u>	<u>44.2</u>	<u>24.4</u>	<u>13.8</u>	<u>7.2</u>	<u>6.0</u>	<u>2.1</u>

Drytime: 9.7 Static Flow: 0, 8.8 Avg. Microns: 1754

Color L: 101.21 a 0.04 b 1.14

METS: 9300, 122.4%

Technician: D.J. + HDL

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Vista Chemical Company

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

CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

VISTA

Product: 5305

Attention: Quality Control Manager

Railcar No.: GACX 73412

Ship Date: April 28, 1992

Order No.: 0009579-002

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.72
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Residual VCM, ppm	ABGC-26	0.145
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Contamination	ABR-5A	
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Total Black + Brown

A	CA	CB	B
10	10	10	10

Dry Flow, Seconds	ABR-8	9.3
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Bulk Density, gm/cc	ABR-2A	0.530
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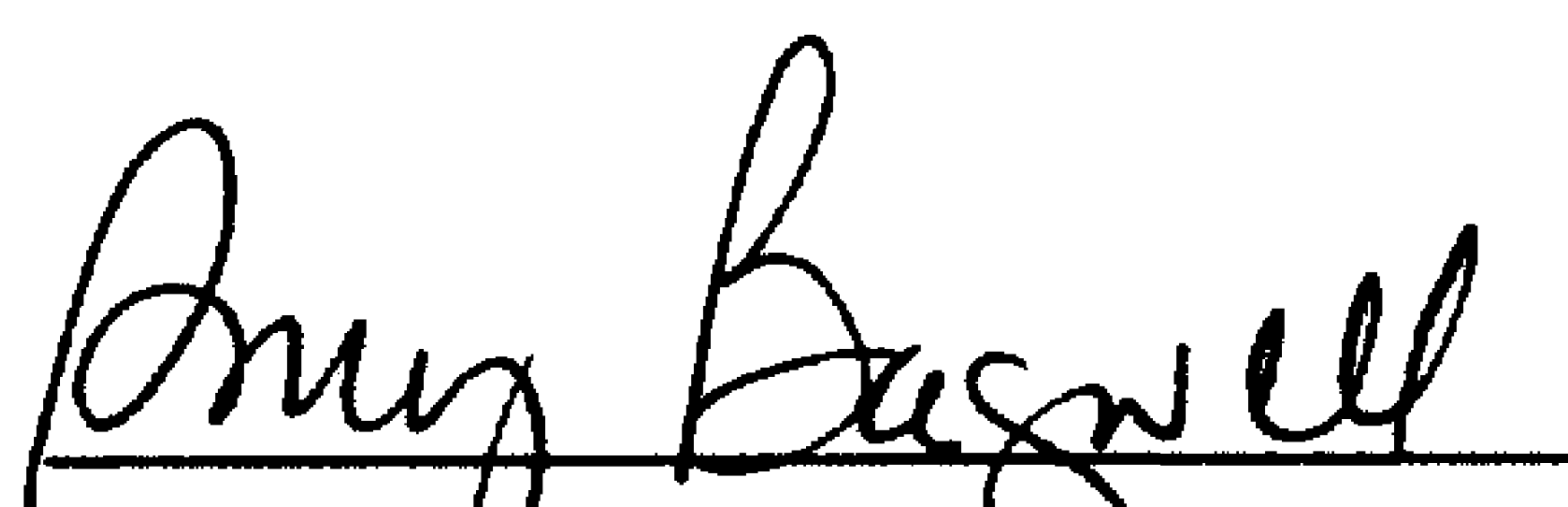
Moisture, %	ABR-1A	0.12
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.00	0.1	5.7	16.9	29.0	26.2	17.6	4.5

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201302

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-6-92Product: 5305Car No.: 73412Time Logged In: 1600Logged In By: MOSilo(s): 678,680Ship Date: 4/28Order No: 9579-002Customer: IPC/No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture	.12		.06		.08		.08	
Contamination	BL <u>7</u>	—	S <u>5</u>	—	4 <u>4</u>	—	3 <u>3</u>	—
	BR <u>3</u>		S <u>5</u>		6 <u>6</u>		7 <u>7</u>	
Bulk Density	.532		.530		.531		.528	
BD w/antistat								
Viscosity	.720		.722		.718		.720	
RVCM	.145		.044		.142		.084	
Tappi Test Contamination Composite								
.06 or less			.07 ----- .15			.20 ----- .60		
<u>5/10</u>								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.04</u>	<u>2.83</u>	<u>8.47</u>	<u>14.58</u>	<u>13.10</u>	<u>8.81</u>	<u>2.23</u>
%	<u>0.0</u>	<u>0.1</u>	<u>5.7</u>	<u>16.9</u>	<u>29.0</u>	<u>26.2</u>	<u>17.6</u>	<u>4.5</u>

Avg. Microns: 127.4% Glassies: <1%Color L: 99.59 a 0.33 b 1.67Static Flow: 0.93Technician: D.T.F.H.L

VAB.0001201303

SAVE remainder of samples for

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: May 1, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: UTCX 46491

Attention: Quality Control Manager

Order No.: 0010424-000

Ship Date: April 29, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.93

Residual VCM, ppm

ABGC-26

0.064

Contamination

ABR-5A

A	CA	CB	B
16	20	18	14

Total Black + Brown

8

Hard Particles @ 7 Mins.

ABR-12

4

Dry Flow, Seconds

ABR-8

11.7

Bulk Density, gm/cc

ABR-2A

0.565

Moisture, %

ABR-1A

0.12

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	2.0	28.1	27.5	21.0	11.3	8.0	2.1

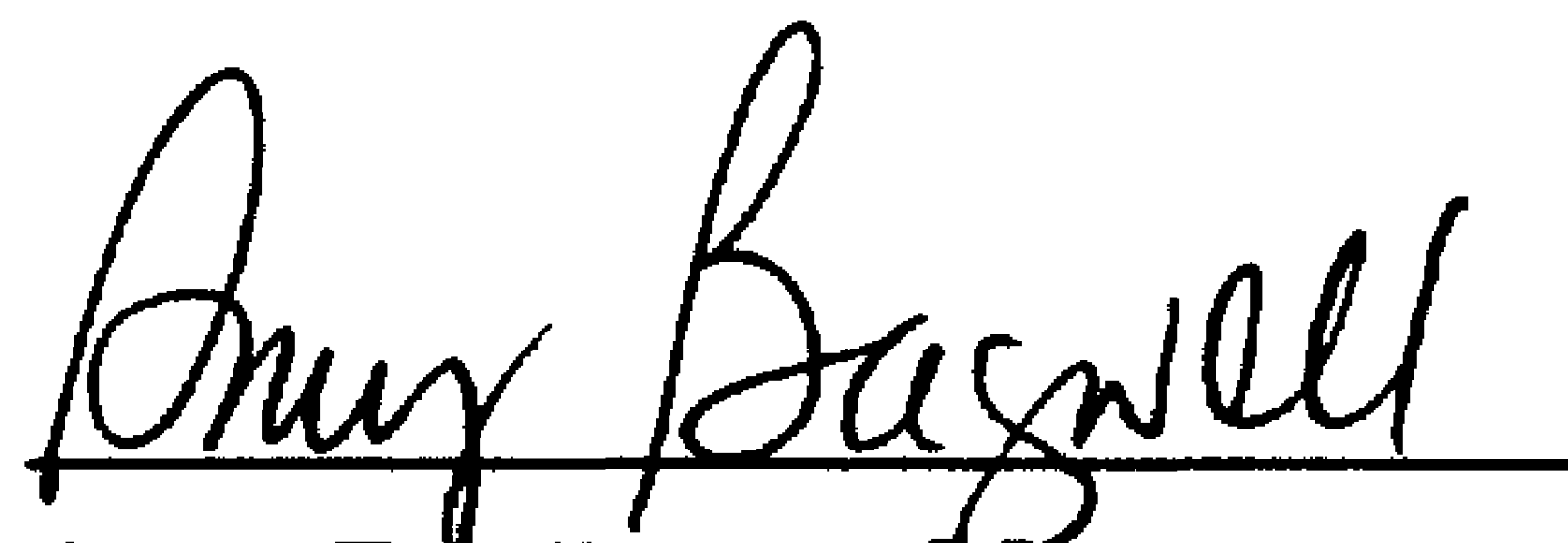
% ON

Brabender Dry Time, Mins.

ABR-7

4.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201304

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-28-92Product: 5385Car No.: 46491Time Logged In: 1615Logged In By: J. L.Silo(s): 676+677Ship Date: 4/29Order No: 10424-000Customer: IPC

no metal

Compartment	<u>1615</u> A		<u>145</u> CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.01		.12		.12	
Contamination	BL	<u>6</u>	<u>10</u>		<u>8</u>		<u>5</u>	
	BR	<u>10</u>	<u>10</u>		<u>10</u>		<u>9</u>	
Bulk Density	.547		.575		.556		.582	
BD after Fluff								
Hard Particle 5	<u>18</u>							
7	<u>4</u>							
Viscosity	.928							
RVCM	.064							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.99</u>	<u>14.05</u>	<u>13.75</u>	<u>10.21</u>	<u>5.64</u>	<u>4.00</u>	<u>1.05</u>
% P	<u>0.0</u>	<u>2.0</u>	<u>28.1</u>	<u>27.5</u>	<u>21.0</u>	<u>11.3</u>	<u>8.0</u>	<u>2.1</u>

Drytime: 4.8Static Flow: 0.11.7Avg. Microns: 161.4Color L: 100.54 a 0.19 b 1.63Technician: MIT & RH

VAB.0001201305

11

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: April 27, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Railcar No.: ACFX 53666

Attention: Quality Control Manager

Order No.: 0010058-000

Ship Date: April 24, 1992

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	1.01
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Residual VCM, ppm	ABGC-26	0.024
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Contamination	ABR-5A	<table><tr><td>A</td><td>CA</td><td>CB</td><td>B</td></tr><tr><td>4</td><td>7</td><td>5</td><td>5</td></tr></table>	A	CA	CB	B	4	7	5	5
A	CA	CB	B							
4	7	5	5							
	Total Black + Brown									

Hard Particles @ 7 mins.	ABR-12	2
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Dry Flow, Seconds	ABR-8	10.2
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Bulk Density, gm/cc	ABR-2B	0.516
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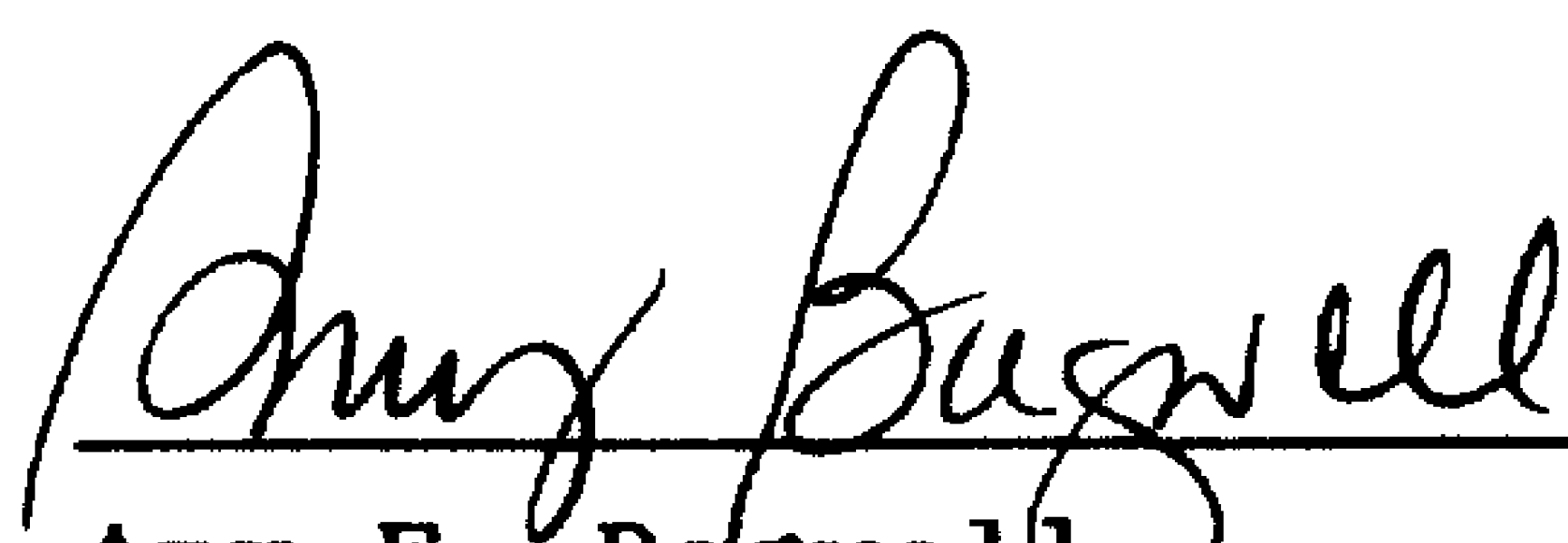
Moisture, %	ABR-1A	0.18
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.00	2.2	48.5	26.2	12.4	5.4	3.9	1.4

Brabender Dry Time, Mins.	ABR-7	5.0
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Amy E. Bagwell
Laboratory Supervisor/Lead

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VAB.0001201306

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-16-92 Product: 5415 Car No.: 53666
 Time Logged In: 0230 Logged In By: DT. Silo(s): 690+691
 Ship Date: 4/24/92 Order No: 10058-000 Customer: STW-IPC

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.13		.10		.18		.10	
Contamination	BL	<u>2</u>	<u>5</u>	<u>3</u>	<u>7</u>	<u>2</u>	<u>4</u>	<u>1</u>
	BR	<u>2</u>	<u>3</u>	<u>4</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>3</u>
Bulk Density	.516		.515		.517		.516	
Hard Particle	5	<u>6</u>	—	—	—	—	—	—
	7	<u>238</u>	—	—	—	—	—	—
Viscosity	1.008							
RVCN	.024							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.08</u>	<u>24.24</u>	<u>13.10</u>	<u>6.27</u>	<u>2.72</u>	<u>1.95</u>	<u>.72</u>
%	<u>0.0</u>	<u>2.2</u>	<u>48.5</u>	<u>26.2</u>	<u>12.4</u>	<u>5.4</u>	<u>3.9</u>	<u>1.4</u>

Drytime: 5.0 Static Flow: 0 110.2 Avg. Microns: 181.1

Color L: 98.82 a 0.04 b 1.32

METS: 9457, 124.5%

Technician: Co + E2

Vista Polymers
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Highway 25
Post Office Box 91

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CERTIFICATE OF ANALYSIS

Date: April 23, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415 **VISTA**

Railcar No.: UTCX 46483

Attention: Quality Control Manager

Order No.: 0009577-001

Ship Date: April 21, 1992

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	1.00
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Residual VCM, ppm	ABGC-26	0.017
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Contamination	ABR-5A	
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Total Black + Brown

A	CA	CB	B
15	7	10	6

Hard Particles @ 7 mins.	ABR-12	1
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Dry Flow, Seconds	ABR-8	11.7
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Bulk Density, gm/cc	ABR-2B	0.514
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Moisture, %	ABR-1A	0.14
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.00	2.1	43.5	26.3	14.8	6.9	4.7	1.7

Brabender Dry Time, Mins.	ABR-7	4.9
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Amy E. Bagwell
Laboratory Supervisor/Lead

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VAB.0001201308

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-6-92Product: 5415Car No.: 46483Time Logged In: 1600Logged In By: MJSilo(s): 690, 691Ship Date: 4/21Order No: 9577-001Customer: IPCno metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.09		.11		.14		.12	
Contamination	BL							
	BR							
	<u>9</u> <u>6</u>	<u>5</u> <u>8</u>	<u>3</u> <u>4</u>	<u>2</u> <u>7</u>	<u>3</u> <u>7</u>	<u>4</u> <u>5</u>	<u>3</u> <u>3</u>	<u>4</u> <u>7</u>
Bulk Density	.505		.513		.520		.518	
Hard Particle	5							
	7							
	<u>3</u> <u>100</u>	—	—	—	—	—	—	—
Viscosity	1.002							
RVCM	.017							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.03</u>	<u>21.74</u>	<u>13.16</u>	<u>7.33</u>	<u>3.46</u>	<u>2.33</u>	<u>.85</u>
%	<u>0.0</u>	<u>2.1</u>	<u>43.5</u>	<u>26.3</u>	<u>14.8</u>	<u>6.9</u>	<u>4.7</u>	<u>1.7</u>

Drytime: 4.9 Static Flow: 0, 11.7 Avg. Microns: 176.1Color L: 100.96 a .04 b 1.21METS: 9300, 120.0%Technician: GO + RH

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: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: UTCX 46553

Attention: Quality Control Manager

Order No.: 0009578-003

Ship Date: April 21, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.92

Residual VCM, ppm

ABGC-26

0.080

Contamination

ABR-5A

A	CA	CB	B
13	13	14	17

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

2

Dry Flow, Seconds

ABR-8

9.4

Bulk Density, gm/cc

ABR-2A

0.581

Moisture, %

ABR-1A

0.15

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	4.3	43.0	24.7	13.9	7.6	4.9	1.6

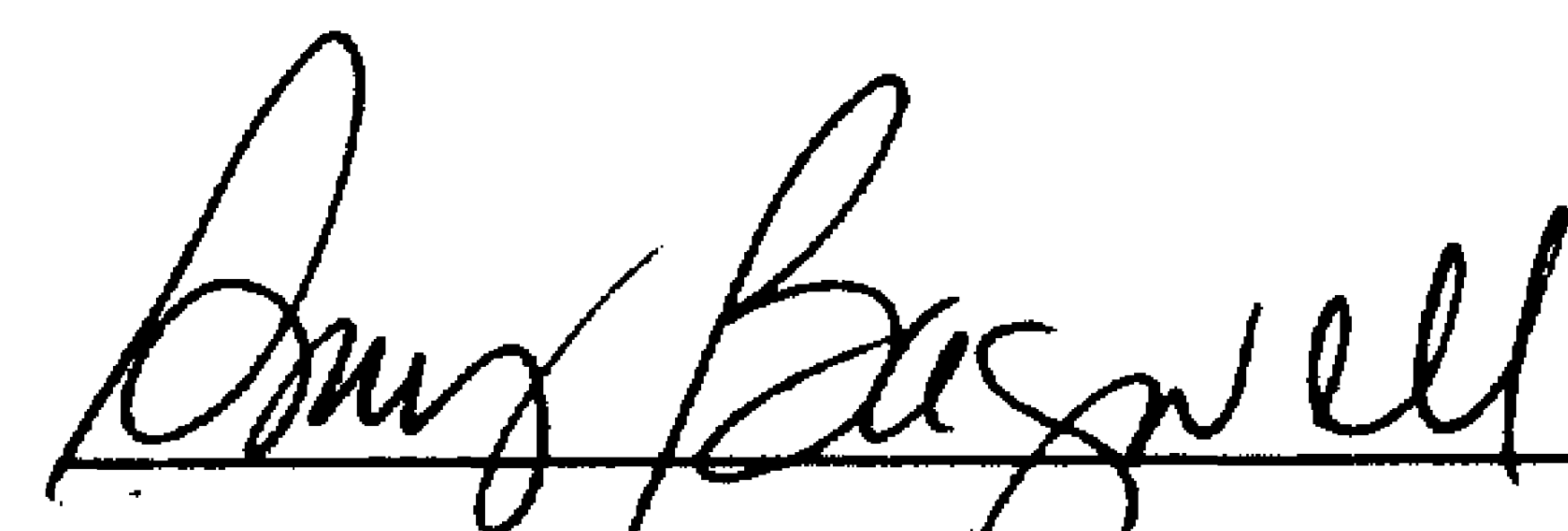
% ON

Brabender Dry Time, Mins.

ABR-7

5.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201310

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4-16-92Product: 5385Car No.: 46553Time Logged In: 0230Logged In By: D.T.Silo(s): 676, 677, 685Ship Date: 4/21Order No: 9578-003Customer: InterNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.15		.14		.12	
Contamination	BL <u>4</u>	—	5	—	6	—	3	—
	BR <u>9</u>		8		8		14	
Bulk Density	.584		.586		.584		.570	
BD after Fluff								
Hard Particle 5	<u>11</u>	—	—	—	—	—	—	—
7	<u>2</u>							
	<u>L.I.</u>							
Viscosity	.919							
RVCM	.080							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.15</u>	<u>21.51</u>	<u>12.35</u>	<u>7.32</u>	<u>3.78</u>	<u>2.43</u>	<u>0.80</u>
%	<u>0.0</u>	<u>4.3</u>	<u>43.0</u>	<u>24.7</u>	<u>13.9</u>	<u>7.6</u>	<u>4.9</u>	<u>1.6</u>

Drytime: 5.0Static Flow: 0, 9.4Avg. Microns: 179.5Color L: 100.55 a -0.06 b 1.77Technician: A.T. + H.D.L.

VAB.0001201311

CUST RTN TO ABDN 6/5/92

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: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5305

VISTA

Attention: Quality Control Manager

Railcar No.: UTCX 46422

Ship Date: April 20, 1992

Order No.: 0009579-001

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.72
--------------------	--------	------

Residual VCM, ppm	ABGC-26	0.055
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Contamination

ABR-5A

Total Black + Brown

A	CA	CB	B
86	12	12	13

Dry Flow, Seconds

ABR-8

9.4

Bulk Density, gm/cc

ABR-2A

0.530

Moisture, %

ABR-1A

0.18

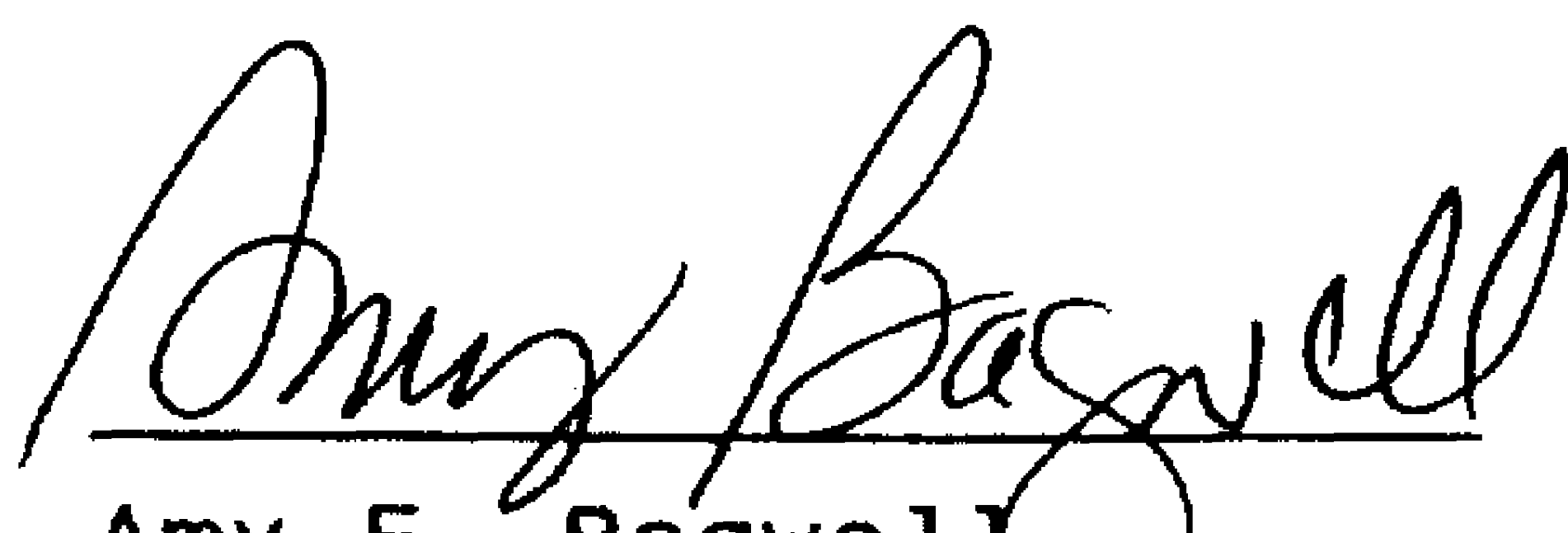
Particle Size Distribution

ABR-3

% ON

40	60	80	100	120	140	200	PAN
0.00	0.0	7.2	23.3	32.8	20.9	10.9	4.9

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201312

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: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: GACX 73389

Attention: Quality Control Manager

Order No.: 0009578-002

Ship Date: April 16, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.92

Residual VCM, ppm

ABGC-26

0.063

Contamination

ABR-5A

A	CA	CB	B
10	20	11	13

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

2

Dry Flow, Seconds

ABR-8

8.3

Bulk Density, gm/cc

ABR-2A

0.591

Moisture, %

ABR-1A

0.02

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	7.6	38.9	23.4	15.8	7.7	4.9	1.7

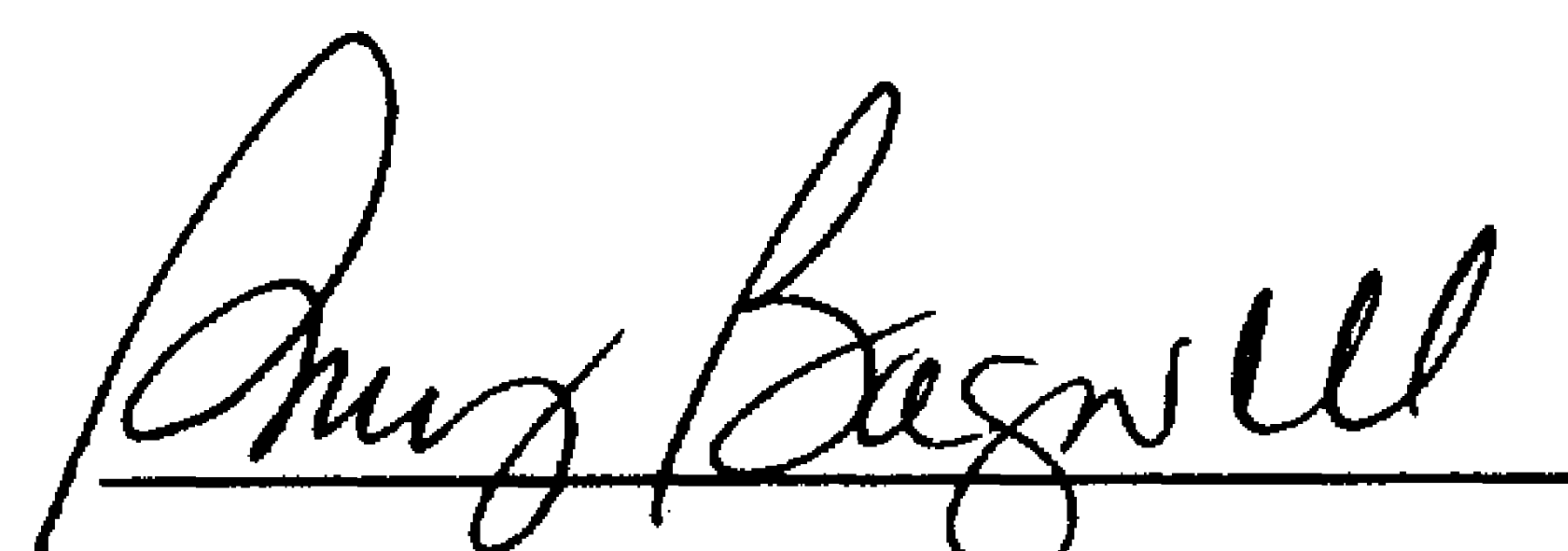
% ON

Brabender Dry Time, Mins.

ABR-7

4.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201313

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 4-14-92 Product: 5385 Car No.: 73389
 Time Logged In: 1815 Logged In By: D.F. Silo(s): 677
 Ship Date: 4/16 Order No: 9578-002 Customer: IPC

no metal

Compartment	A		CA		CB MT		B MT	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.01		.02		.01	
Contamination	BL							
	BR							
Bulk Density	.594		.592		.589		.588	
BD after Fluff								
Hard Particle 5	12							
7	2.00							
Viscosity	919							
RVCM	.063							
40 Mesh/Glassies								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>3.80</u>	<u>19.44</u>	<u>11.69</u>	<u>7.50</u>	<u>3.83</u>	<u>2.44</u>	<u>.84</u>
% P	<u>0.0</u>	<u>7.6</u>	<u>38.9</u>	<u>23.4</u>	<u>15.8</u>	<u>7.7</u>	<u>4.9</u>	<u>1.7</u>

Drytime: 4.8 Static Flow: 0.18.3 Avg. Microns: 182.4

Color L: 100.06 a 0.06 b 1.97

Technician: M.T & R.H.

VAB.0001201314

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 16, 1992

Customer: Intex Plastics
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5415

VISTA

Attention: Quality Control Manager

Railcar No.: UTCX 46520

Ship Date: April 15, 1992

Order No.: 0009577-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	1.00
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Residual VCM, ppm	ABGC-26	0.0/0
-------------------	---------	-------

Contamination	ABR-5A	
---------------	--------	--

Total Black + Brown

A	CA	CB	B
10	11	9	8

Hard Particles @ 7 mins.	ABR-12	2
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Dry Flow, Seconds	ABR-8	8.5
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Bulk Density, gm/cc	ABR-2B	0.520
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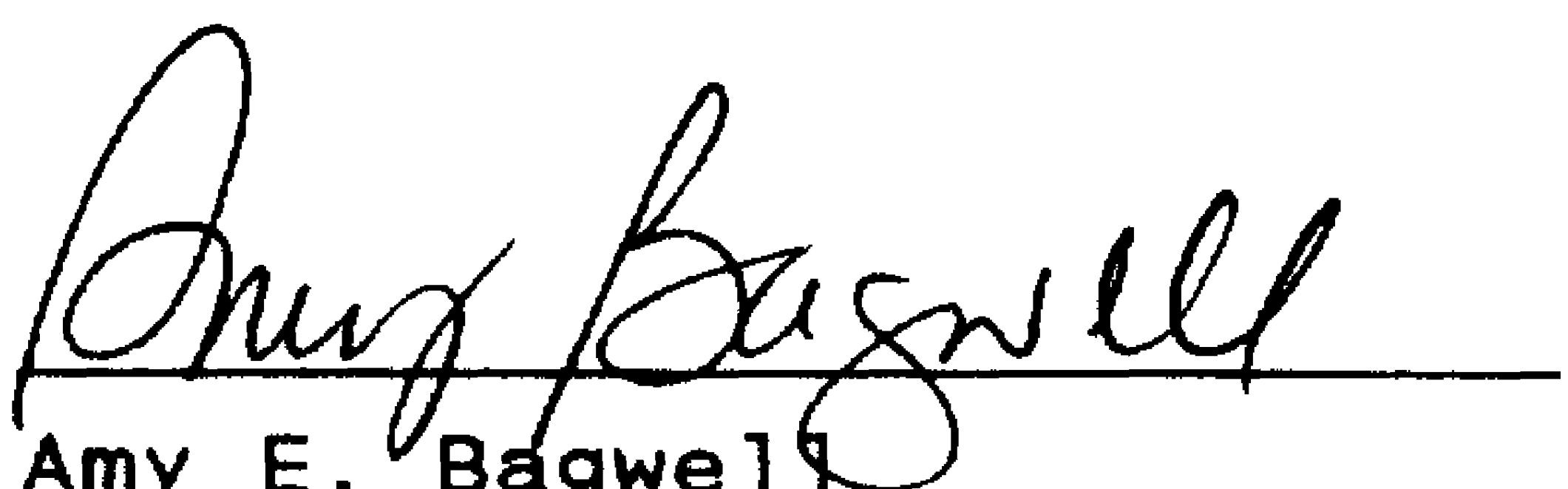
Moisture, %	ABR-1A	0.20
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Particle Size Distribution	ABR-3	
----------------------------	-------	--

% ON

40	60	80	100	120	140	200	PAN
0.00	2.1	44.3	27.8	13.3	6.3	4.3	1.9

Brabender Dry Time, Mins.	ABR-7	4.9
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Amy E. Bagwell
Laboratory Supervisor/Lead

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VAB.0001201315

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-7-92Product: 5415Car No.: 46520Time Logged In: 1200Logged In By: MASilo(s): 690, 691Ship Date: 4/15 Order No: 9577-000 Customer: IPC

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top
Moisture %	.20		.16		.16		.14	
Contamination	BL	<u>3</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>2</u>	<u>3</u>	<u>4</u>
	BR	<u>7</u>	<u>6</u>	<u>8</u>	<u>5</u>	<u>7</u>	<u>6</u>	<u>5</u>
Bulk Density	.525		.523		.517		.516	
Hard Particle	5	<u>4</u>						
	7	<u>2 Co</u>						
Viscosity	1.004							
RVCM	.010							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>103</u>	<u>22.13</u>	<u>13.88</u>	<u>7.05</u>	<u>3.15</u>	<u>2.14</u>	<u>.93</u>
%	<u>0.0</u>	<u>2.1</u>	<u>44.3</u>	<u>27.8</u>	<u>13.3</u>	<u>6.3</u>	<u>4.3</u>	<u>1.9</u>

Drytime: 4.9 Static Flow: 0.85 Avg. Microns: 177.2Color L: 100.90 a: 0.00 b: 1.33METS: 9147, 118.0 %Technician: Co + RH

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

Reship to Freedom Plast.

6/16/92

Cust. Rtn

CERTIFICATE OF ANALYSIS

Date: April 16, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5385

VISTA

Railcar No.: VIPX 45760

Attention: Quality Control Manager

Order No.: 0009578-001

Ship Date: April 14, 1992

Property

Test Method

Analysis

Inherent Viscosity

ABR-10

0.92

Residual VCM, ppm

ABGC-26

0.057

Contamination

ABR-5A

A	CA	CB	B
44	16	16	14

Total Black + Brown

Hard Particles @ 7 Mins.

ABR-12

5

Dry Flow, Seconds

ABR-8

9.6

Bulk Density, gm/cc

ABR-2A

0.575

Moisture, %

ABR-1A

0.03

Particle Size Distribution

ABR-3

40	60	80	100	120	140	200	PAN
0.00	4.0	40.0	25.8	14.2	8.0	5.0	3.0

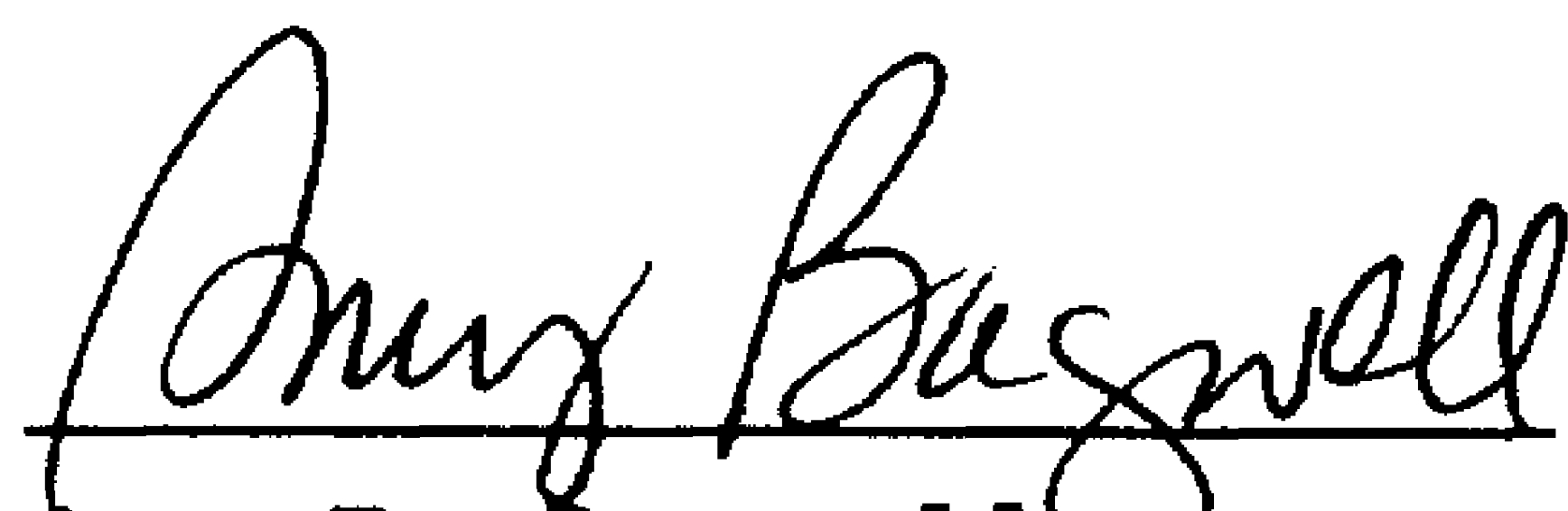
% ON

Brabender Dry Time, Mins.

ABR-7

5.0

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201317

Vista Polymers
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Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: April 15, 1992

Customer: Intex Plastics Corp.
Corinth Div.
Golding Drive
Corinth, MS 38834

Product: 5305

VISTA

Attention: Quality Control Manager

Railcar No.: ACFX 41135

Ship Date: April 10, 1992

Order No.: 0009579-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Inherent Viscosity	ABR-10	0.73
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Residual VCM, ppm	ABGC-26	0.006
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Contamination	ABR-5A	
Total Black + Brown		

A	CA	CB	B
9	15	15	8

Dry Flow, Seconds	ABR-8	7.6
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Bulk Density, gm/cc	ABR-2A	0.542
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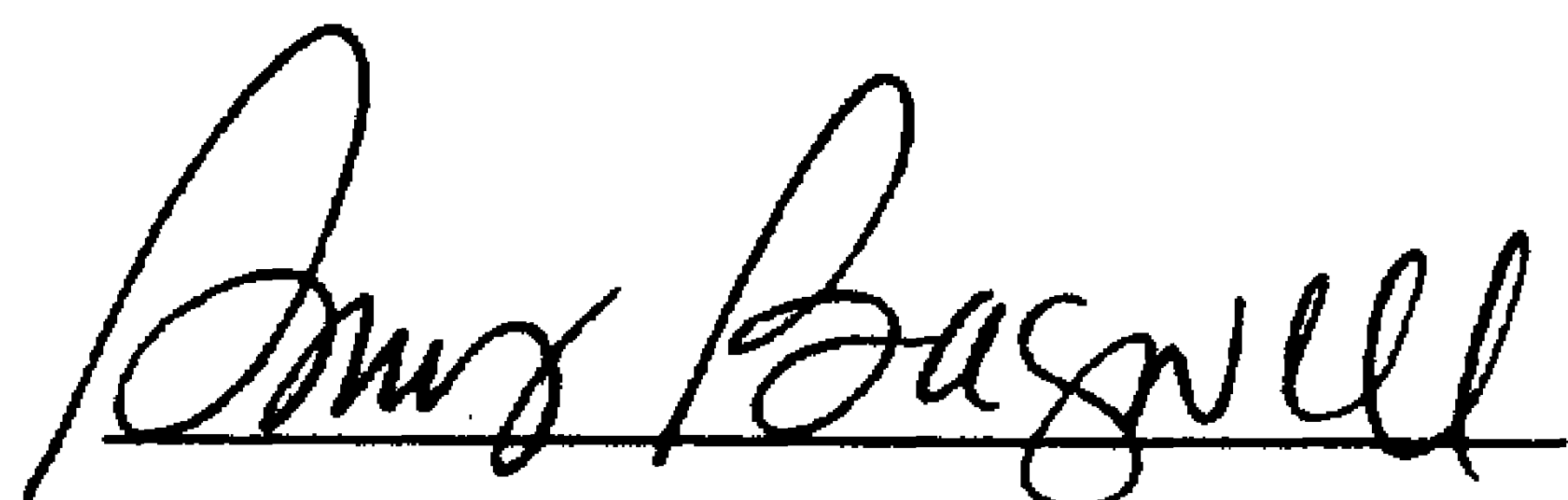
Moisture, %	ABR-1A	0.20
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Particle Size Distribution	ABR-3	
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% ON

40	60	80	100	120	140	200	PAN
0.0	0.5	14.8	24.3	30.4	19.4	8.8	1.8

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

VAB.0001201318

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: February 4, 1992

Customer: Marley Mouldings, Inc.
P. O. Box 610
Marion, VA 24354

FAX No. 703-783-8169

Product: 5305

Attention: Brenda Sauls

Railcar No.: ACFX 41135

Ship Date: January 29, 1992

Order No.: 000627B-003

Property

Test Method

Analysis

Moisture, %

ABR-1A

.20

Bulk Density,
GM/CC

ABR-2A

.543

Particle Size,
% on

ABR-3

40	60	80	100	120	140	200	PAN
0.0	0.5	14.8	24.3	30.4	19.4	8.8	1.8

Residual VCM, ppm

ABGC-26

.006

Inherent Viscosity

ABR-10

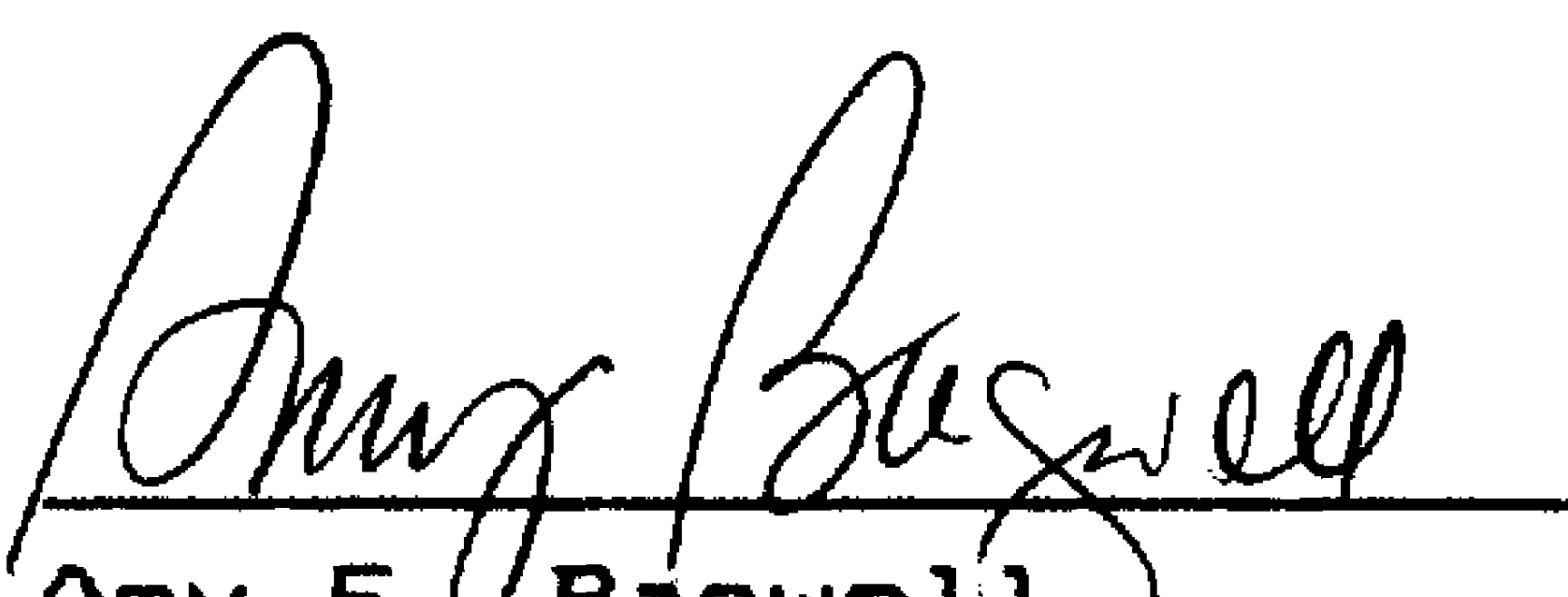
.73

Static Flow, Seconds

ABR-8

7.6

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

Phone (601) 369-8111

Cust. Return