

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: September 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45828

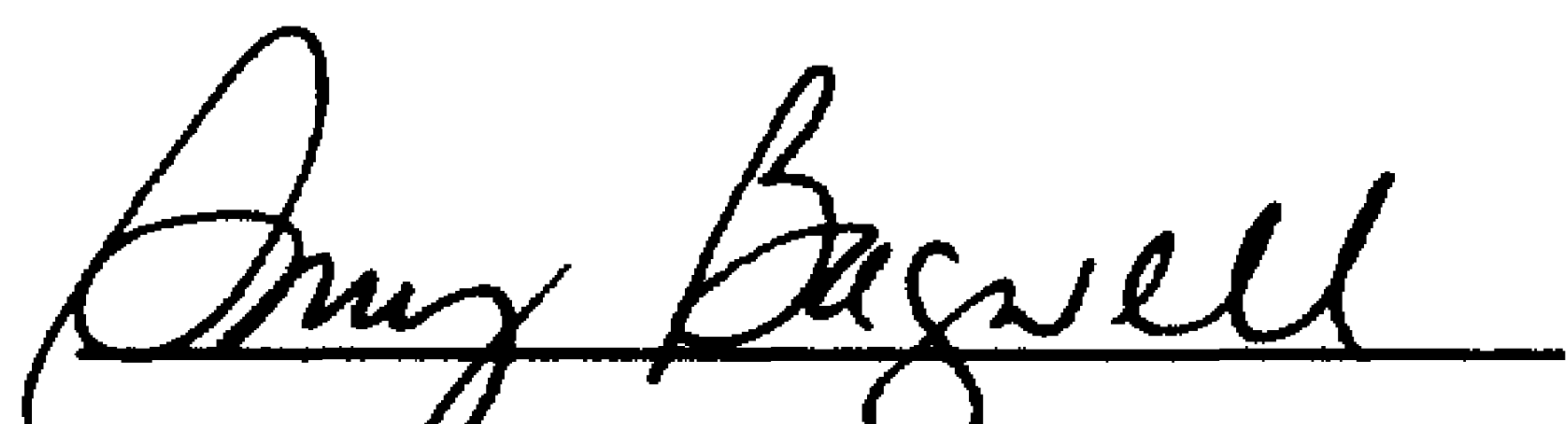
Ship Date: September 8, 1992

Order No.: 0014017-008

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.12
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.542
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	17.2
% On Pan		5.0 Max.	3.6
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.050
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202071

PVC RAILCAR ANALYSIS

Load Date: 9-3-92 Product: 5265 Car No.: 45828
 Time Logged In: 1600 Logged In By: CO Silo(s): 680,678
 Ship Date: 9/8 Order No: 14017-008 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.12		.07		.10	
Contamination	BL <u>9</u>	—	7	—	13	—	6	—
	BR <u>12</u>		8		10		8	
Bulk Density	.542		.543		.542		.542	
BD w/antistat								
Viscosity	.661		.662		.661		.662	
RVCM	.050		.058		.060		.062	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>6/8</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>20</u>	<u>.02</u>	<u>3.11</u>	<u>7.70</u>	<u>14.44</u>	<u>14.43</u>	<u>8.58</u>	<u>179</u>
% P	<u>0.0</u>	<u>0.0</u>	<u>6.2</u>	<u>15.4</u>	<u>28.7</u>	<u>28.9</u>	<u>17.2</u>	<u>3.6</u>

Static Flow: 0 17.6Avg. Microns: 127.7Color L: 98.05 a 0.75 b 1.95Technician: M.T & R.H

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A

CERTIFICATE OF ANALYSIS

Date: September 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46566

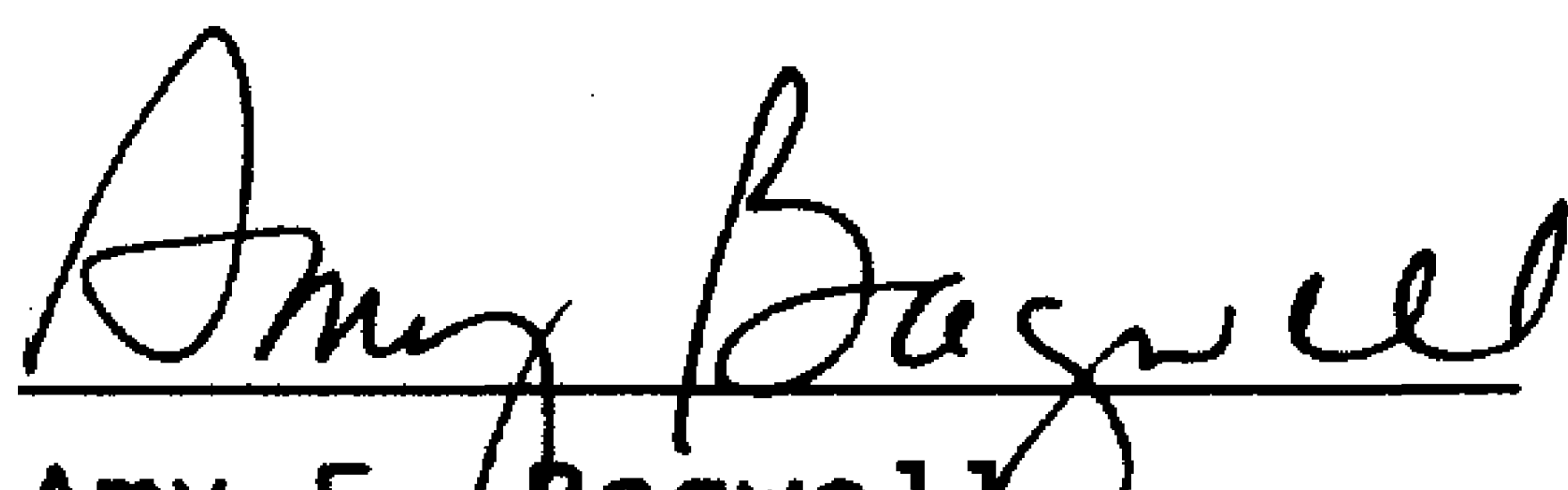
Ship Date: September 8, 1992

Order No.: 0014017-009

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.20
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.544
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	15.0
% On Pan		5.0 Max.	3.0
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.052
Inherent Viscosity	ABR-10	0.64 - 0.68	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202073

PVC RAILCAR ANALYSIS

Load Date: 9-2-92 Product: 5265 Car No.: 46564
 Time Logged In: 0100 Logged In By: RJ Silo(s): 678
 Ship Date: 9/8 Order No: 14017-009 Customer: Nibco
NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.19		.20		.20	
Contamination	BL <u>8</u>	—	6	—	9	—	18	—
	BR <u>13</u>		3		2		3	
Bulk Density	.541		.544		.547		.543	
BD w/antistat								
Viscosity	.674		.667		.660		.672	
RVCM	.052		.190		.001		.048	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>5/3</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.06</u>	<u>3.40</u>	<u>8.45</u>	<u>15.12</u>	<u>13.82</u>	<u>7.52</u>	<u>1.50</u>
%	<u>0.0</u>	<u>0.1</u>	<u>6.8</u>	<u>16.9</u>	<u>30.6</u>	<u>27.6</u>	<u>15.0</u>	<u>3.0</u>

Static Flow: 0, 8.1 Avg. Microns: 130.7

Color L: 99.47 a 0.47 b 1.75

Technician: HJR/MB

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A

CERTIFICATE OF ANALYSIS

Date: September 21, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

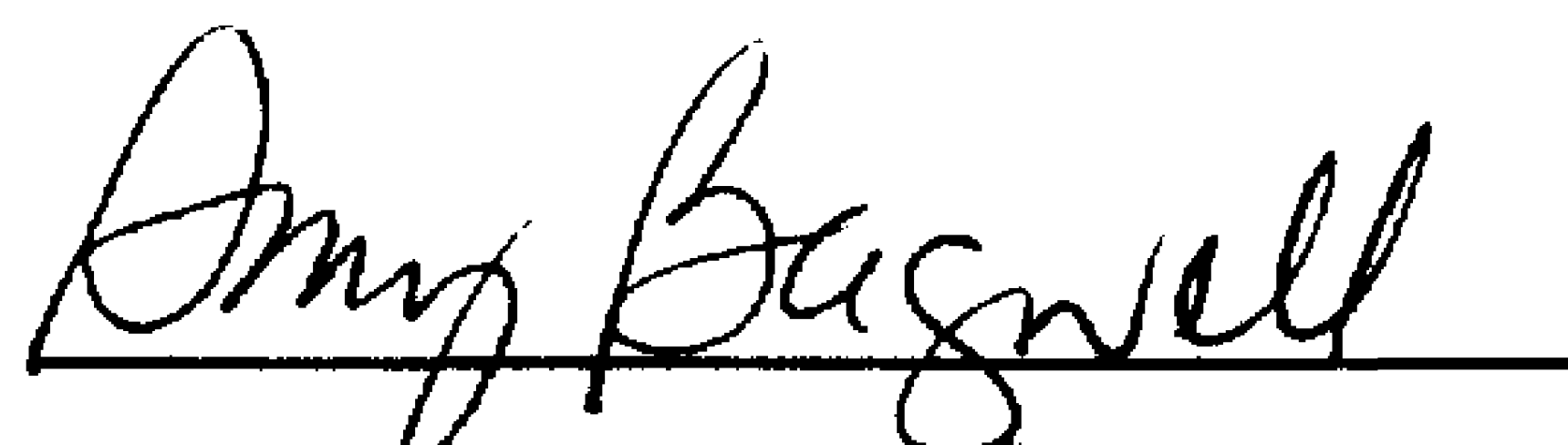
Railcar No.: PLWX 44676

Ship Date: September 14, 1992

Order No.: 0014017-010

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.23
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.545
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	14.8
% On Pan		5.0 Max.	3.1
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.082
Inherent Viscosity	ABR-10	0.64 - 0.68	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VISTA

VAB.0001202075

PVC RAILCAR ANALYSIS

PLWY

Load Date: 9-5-92Product: 5265Car No.: 44676Time Logged In: 1400Logged In By: CoSilo(s): 687, 688Ship Date: 9/14/92Order No: 0014 017-010 Customer: Nibco, GANormal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.18		.23		.17	
Contamination	BL		4		4		5	
	BR		3		2		3	
Bulk Density	.546		.546		.538		.550	
BD w/antistat								
Viscosity	.653		.657		.656		.659	
RVCM	.082		.066		.062		1.116	
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>0.02</u>	<u>3.71</u>	<u>8.32</u>	<u>15.02</u>	<u>14.08</u>	<u>7.40</u>	<u>1.56</u>
%	<u>0.0</u>	<u>0.0</u>	<u>7.4</u>	<u>16.6</u>	<u>29.9</u>	<u>28.2</u>	<u>14.8</u>	<u>3.1</u>

Static Flow: 0 / 8.2Avg. Microns: 130.8Color L: 99.42 a 0.34 b 1.62Technician: D.J. + M.B.

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A

CERTIFICATE OF ANALYSIS

Date: September 21, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: GACX 73400

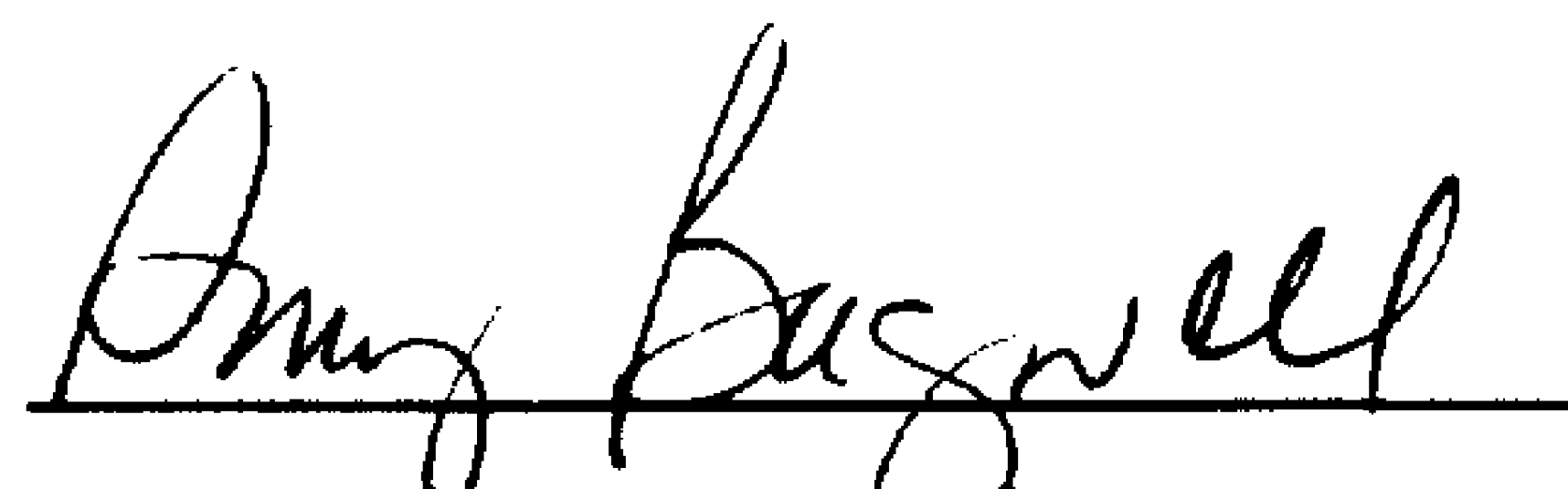
Ship Date: September 14, 1992

Order No.: 0014017-011

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.22
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.542
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	13.1
% On Pan		5.0 Max.	2.7
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.133
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202077

PVC RAILCAR ANALYSIS

GAC4

Load Date: 9-5-92Product: 5265Car No.: 73400Time Logged In: 0330Logged In By: FtoSilo(s): 687+688Ship Date: 9/14/92Order No: 0014017-011Customer: Nibco, GA

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.21		.22		.20	
Contamination	BL	2	3		4		2	
	BR	9	12		6		8	
Bulk Density	.536		.537		.547		.547	
BD w/antistat								
Viscosity	657		656		655		656	
RVCM	.133		.013		.052		.055	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/6							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.25</u>	<u>5.03</u>	<u>9.32</u>	<u>15.03</u>	<u>13.00</u>	<u>6.53</u>	<u>1.36</u>
%	<u>0.0</u>	<u>.1</u>	<u>10.1</u>	<u>18.6</u>	<u>29.4</u>	<u>26.0</u>	<u>13.1</u>	<u>2.7</u>

Static Flow: 0, 8.1Avg. Microns: 135.2Color L: 99.25 a .36 b 1.81Technician: Co + JS

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A

CERTIFICATE OF ANALYSIS

Date: September 21, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45866

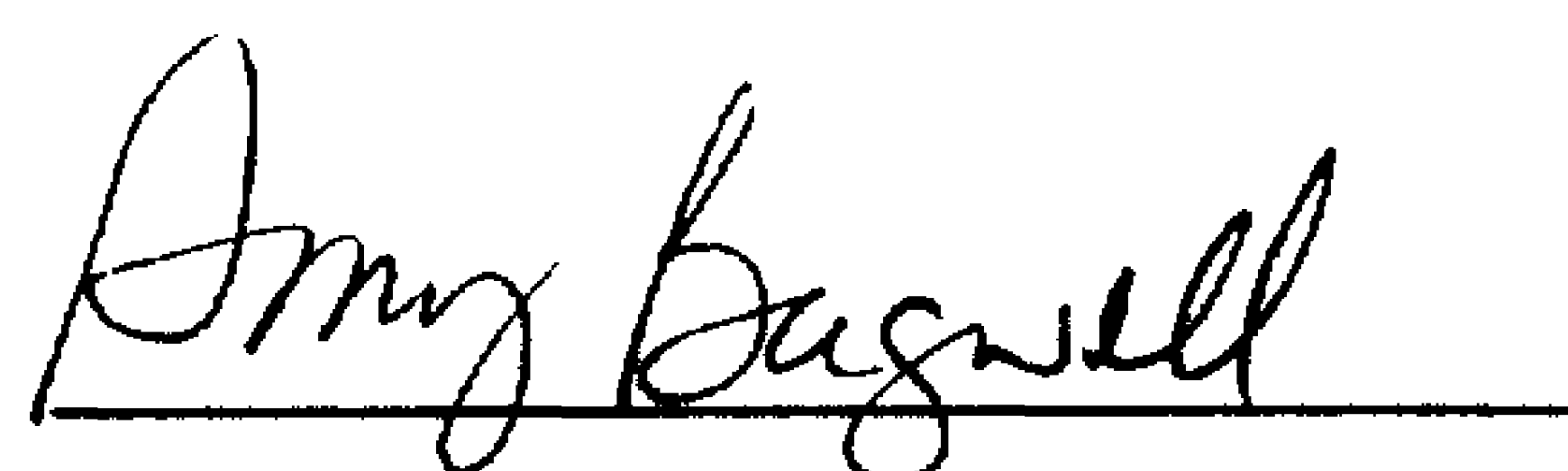
Ship Date: September 14, 1992

Order No.: 0015895-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.16
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.543
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	16.8
% On Pan		5.0 Max.	2.4
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.121
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202079

PVC RAILCAR ANALYSIS

Load Date: 9-3-92Product: 5265Car No.: 45866Time Logged In: 0700Logged In By: MTSilo(s): 680-678Ship Date: 9/14/92Order No: 0015895-000Customer: Nibco, GA

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.16		.13		.12	
Contamination	BL	2	3		2		2	
	BR	4	5		7		6	
Bulk Density	.541		.543		.543		.543	
BD w/antistat								
Viscosity	.663		.663		.663		.663	
RVCM	.121		.002		.129		.112	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/6							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.08</u>	<u>2.68</u>	<u>7.53</u>	<u>14.86</u>	<u>15.31</u>	<u>8.38</u>	<u>1.20</u>
%	<u>0.0</u>	<u>.2</u>	<u>5.4</u>	<u>15.1</u>	<u>29.5</u>	<u>30.6</u>	<u>16.8</u>	<u>2.4</u>

Static Flow: 0.18.2Avg. Microns: 128.5Color L: 99.44 a 0.40 b 1.53Technician: CB + EL

Vista Polymers
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A

CERTIFICATE OF ANALYSIS

Date: September 23, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45793

Ship Date: September 21, 1992

Order No.: 0014631-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.541
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	14.0
% On Pan		5.0 Max.	3.3
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.032
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202081

PVC RAILCAR ANALYSIS

Load Date: 9-7-92Product: 5265Car No.: 75793Time Logged In: 1300Logged In By: MASilo(s): 687, 678, 688Ship Date: 9/21/92Order No: 0014631-001Customer: Nibco, GAno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.11		.13		.15	
Contamination BL	4	—	2	—	1	—	4	—
BR	1		1		3		2	
Bulk Density	.543		.539		.541		.540	
BD w/antistat								
Viscosity	.660		.668		.666		.659	
RVCM	.032		.152		.055		.098	
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>.82</u>	<u>5.60</u>	<u>8.80</u>	<u>13.68</u>	<u>12.34</u>	<u>6.99</u>	<u>1.64</u>
%	<u>0.0</u>	<u>1.4</u>	<u>11.2</u>	<u>17.6</u>	<u>27.6</u>	<u>24.7</u>	<u>14.0</u>	<u>3.3</u>

Static Flow: 0 / 7.2Avg. Microns: 138.1Color L: 99-53 a .50 b 1.21Technician: MA + HA

Vista Polymers
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Highway 25
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Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: September 23, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45718

Ship Date: September 21, 1992

Order No.: 0014631-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.15
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.550
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	10.9
% On Pan		5.0 Max.	2.4
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.061
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

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cc: Nibco, Inc.
Mr. Louis Macakanja
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Elkhart, IN 46515-1167

VAB.0001202083

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

Washed Dryblend Car

PVC RAILCAR ANALYSIS

VIP4

Load Date: 9-6-92Product: 5265Car No.: 45718Time Logged In: 1200Logged In By: GSilo(s): 687,688Ship Date: 9/21/92Order No: 0014631-000Customer: Nibco, GA**NO METAL**

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.15		.12		.14	
Contamination	BL	<u>1</u>	<u>3</u>		<u>1</u>		<u>2</u>	
	BR	<u>2</u>	<u>1</u>		<u>2</u>		<u>2</u>	
Bulk Density	.583		.550		.551		.546	
BD w/antistat								
Viscosity	.656		.656		.658		.657	
RVCM	.061		.064		.059		.003	
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>0.12</u>	<u>4.92</u>	<u>9.88</u>	<u>15.86</u>	<u>12.68</u>	<u>5.43</u>	<u>1.18</u>
%	<u>0.0</u>	<u>0.2</u>	<u>9.8</u>	<u>19.8</u>	<u>31.5</u>	<u>25.9</u>	<u>10.9</u>	<u>2.4</u>

Static Flow: 0, 8.0Avg. Microns: 137.0Color L: 97.68 a 0.44 b 1.74Technician: P.T.M.B.

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A

CERTIFICATE OF ANALYSIS

Date: September 24, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45844

Ship Date: September 23, 1992

Order No.: 0014631-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.11
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.548
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	12.5
% On Pan		5.0 Max.	3.4
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.052
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

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cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202085

PVC RAILCAR ANALYSIS

✓124

Load Date: 9-8-92Product: 5265Car No.: 45844Time Logged In: 1830Logged In By: MJSilo(s): 680, 678, 688, 687Ship Date: 9/23/92 Order No: 0014631-002 Customer: Nibco, GA

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.09		.11		.06	
Contamination	BL	3	2		4		3	
	BR	8	7		10		8	
Bulk Density	.547		.550		.548		.545	
BD w/antistat								
Viscosity	.662		.665		.660		.666	
RVCM	.052		.061		.059		.062	
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>.72</u>	<u>6.18</u>	<u>9.74</u>	<u>14.00</u>	<u>11.33</u>	<u>6.26</u>	<u>1.72</u>
%	<u>0.0</u>	<u>1.4</u>	<u>12.4</u>	<u>19.5</u>	<u>28.1</u>	<u>22.7</u>	<u>12.5</u>	<u>3.4</u>

Static Flow: 0, 7.4Avg. Microns: 140.1Color L: 99.14 a .46 b 1.86Technician: CotES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

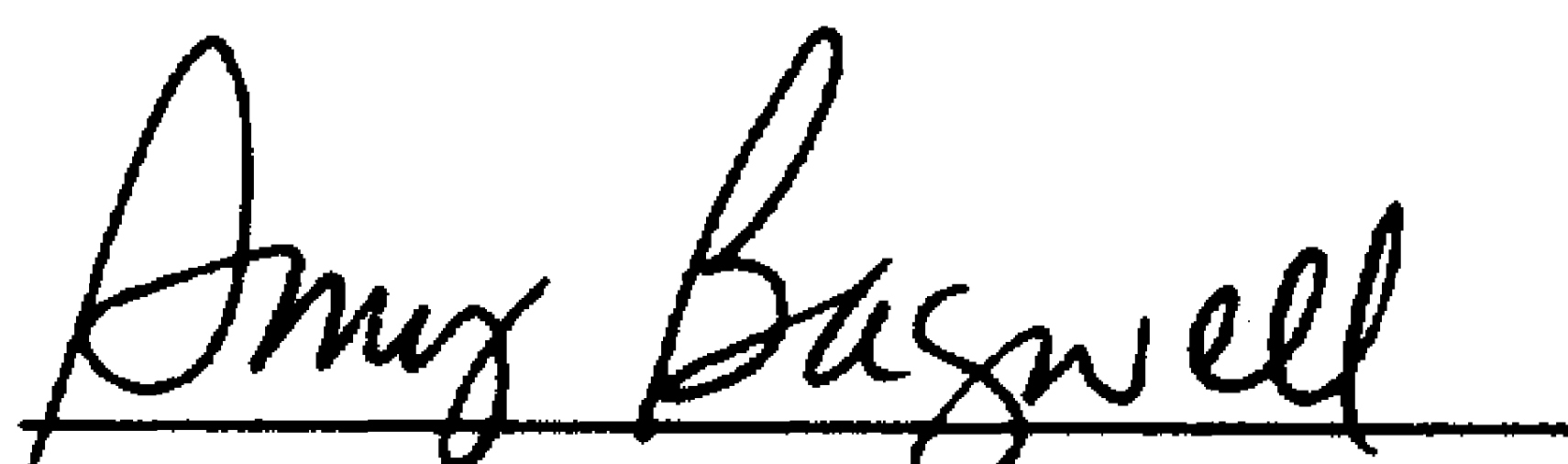
Railcar No.: PLWX 44265

Ship Date: June 15, 1992

Order No.: 0010143-009

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.17
Bulk Density, gm/cc	ABR-2A	0.548
Particle Size, % on	ABR-3	
40 Mesh		0.0
200 Mesh		11.6
Pan		3.0
Residual VCM, ppm	ABGC-26	0.064
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202087

Viata Polymers

Highway 25

Aberdeen, MS 39730 ^A

PVC RAILCAR ANALYSIS

Load Date: 6-9-92 Product: 5265 Car No.: 44265
 Time Logged In: 2400 Logged In By: M.T Silo(s): 687-688
 Ship Date: 6/15/92 Order No: 0010143-009 Customer: Nibco

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.15		.17		.16	
Contamination	BL		1		3		2	
	BR		8		18		17	
Bulk Density	.548		.548		.548		.548	
BD w/antistat								
Viscosity	.662		.661		.661		.662	
RVCM	.009		.064		.051		.035	
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>0.20</u>	<u>5.09</u>	<u>10.21</u>	<u>15.49</u>	<u>11.81</u>	<u>5.81</u>	<u>1.48</u>
%	<u>0.00</u>	<u>0.4</u>	<u>10.2</u>	<u>20.4</u>	<u>30.8</u>	<u>23.6</u>	<u>11.6</u>	<u>3.0</u>

Static Flow: 0, 7.8Avg. Microns: 137.3Color L: 99.21 a 0.69 b 1.53Technician: D.T. + HDL

VAB.0001202088

Vista Polymers
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Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

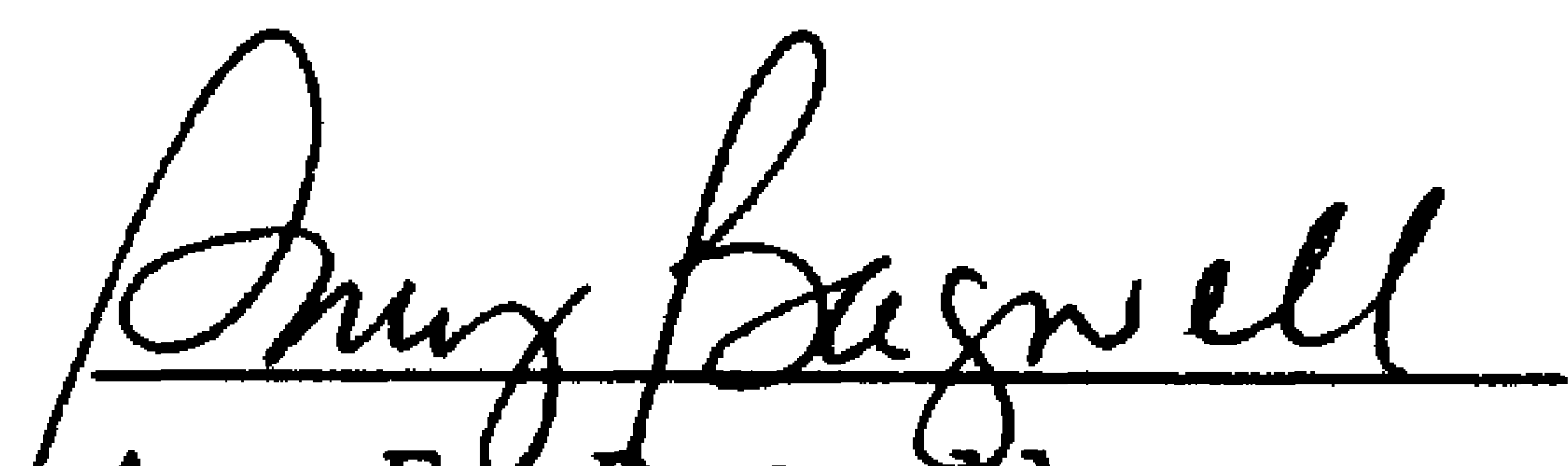
Railcar No.: VIPX 45910

Ship Date: June 15, 1992

Order No.: 0012402-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.544
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		3.9
Pan		2.1
Residual VCM, ppm	ABGC-26	0.056
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202089

Viata Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 6-1-92Product: 5265Car No.: 45910Time Logged In: 0100Logged In By: MSSilo(s): 687,688Ship Date: 6/15Order No: 12402-000Customer: NibcoNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.12		.15		.15	
Contamination	BL		3		3		6	
	BR		7		8		12	
Bulk Density	.548		.538		.546		.543	
BD w/antistat								
Viscosity	.661		.655		.661		.656	
RVCM	.056		.063		.058		.056	
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>0.68</u>	<u>9.10</u>	<u>14.80</u>	<u>16.10</u>	<u>6.70</u>	<u>1.93</u>	<u>1.04</u>
%	<u>0.0</u>	<u>1.4</u>	<u>18.2</u>	<u>29.6</u>	<u>31.4</u>	<u>13.4</u>	<u>3.9</u>	<u>2.1</u>

Static Flow: 0 / 8.0Avg. Microns: 154.6Color L: 99.43 a 0.96 b 1.75Technician: D.T. + HPL

VAB.0001202090

Vista Polymers
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Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

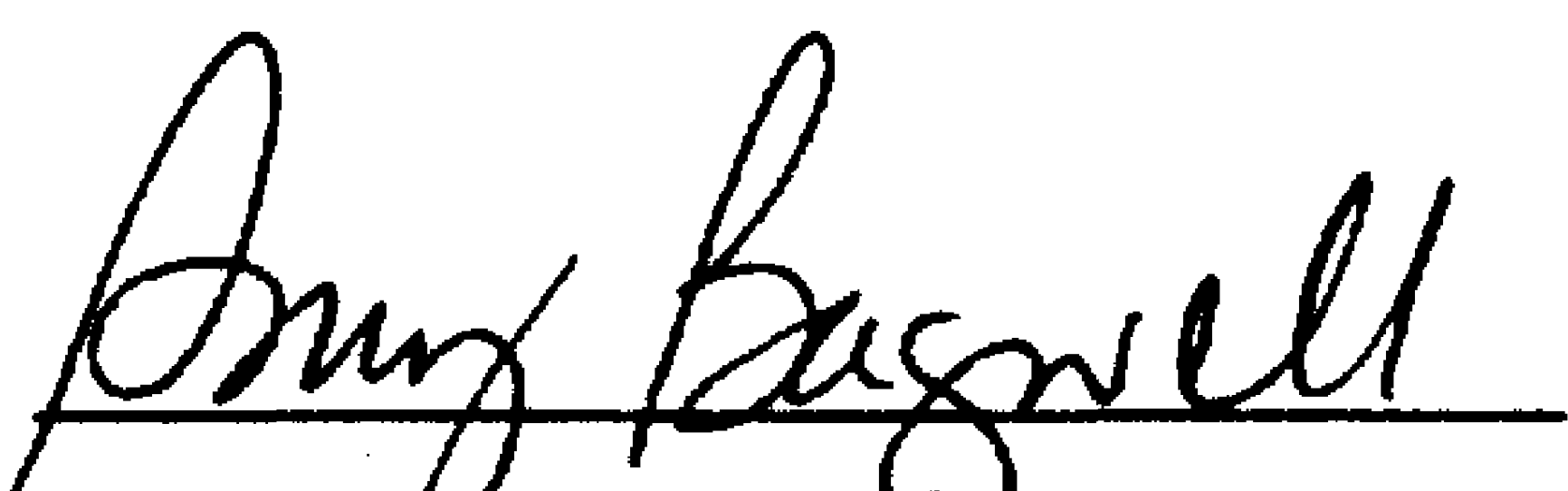
Railcar No.: GACX 73398

Ship Date: June 15, 1992

Order No.: 0010143-008

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.10
Bulk Density, gm/cc	ABR-2A	0.550
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		8.9
Pan		2.3
Residual VCM, ppm	ABGC-26	0.094
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202091

Viata Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 6/4/92 Product: 5265 Car No.: 73398
 Time Logged In: 0600 Logged In By: [Signature] Silo(s): 687/688
 Ship Date: 6/15 Order No: 10143-008 Customer: Hubco

NO METALH.P. - 50/50

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.08		.07		.10	
Contamination	BL	<u>4</u>	—	<u>4</u>	—	<u>5</u>	—	<u>2</u>
	BR	<u>5</u>	—	<u>2</u>	—	<u>3</u>	—	<u>1</u>
Bulk Density	.549		.549		.551		.550	
BD w/antistat								
Viscosity	.654		.667		.643		.657	
RVCM	.094		.063		.101		.066	
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>0.13</u>	<u>5.35</u>	<u>11.17</u>	<u>16.64</u>	<u>11.01</u>	<u>4.45</u>	<u>1.15</u>
%	<u>0.0</u>	<u>0.3</u>	<u>10.7</u>	<u>22.3</u>	<u>33.5</u>	<u>22.0</u>	<u>8.9</u>	<u>2.3</u>

Static Flow: 0 / 7.6Avg. Microns: 140Color L: 99.51 a 0.74 b 1.67Technician: H.A. + MDB

VAB.0001202092

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: June 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

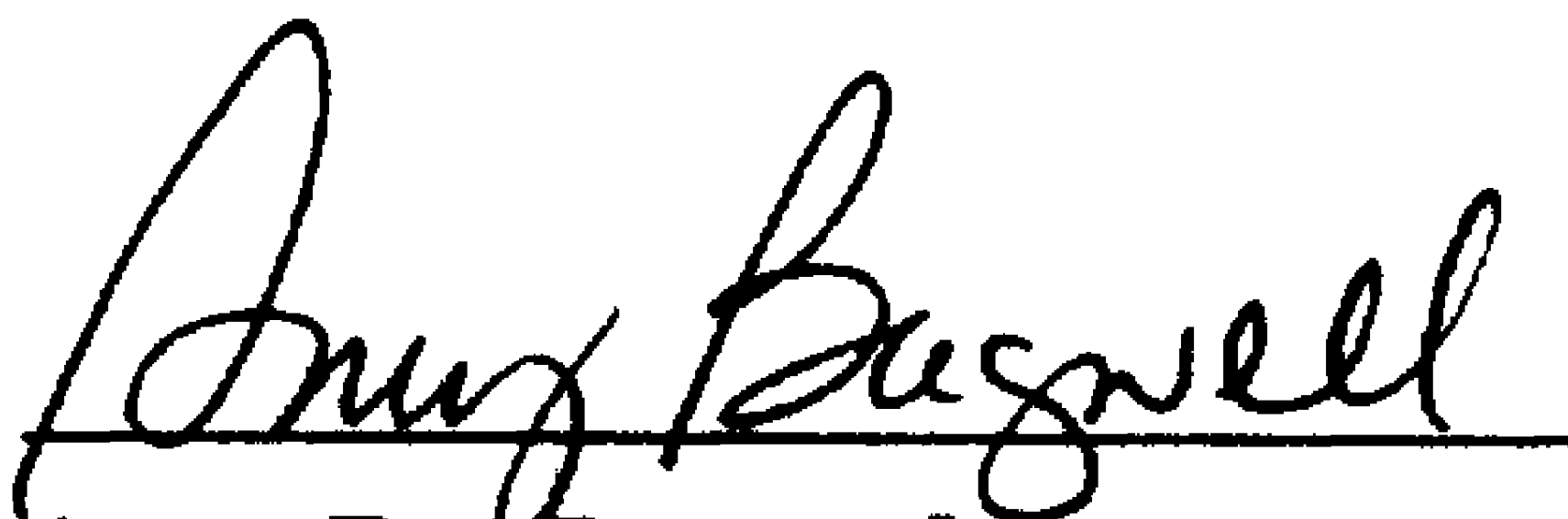
Railcar No.: GACX 73379

Ship Date: June 15, 1992

Order No.: 0010143-007

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.16
Bulk Density, gm/cc	ABR-2A	0.544
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		8.4
Pan		2.4
Residual VCM, ppm	ABGC-26	0.192
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202093

Vista Polymers

Highway 25

Aberdeen, MS 39730 ^A

PVC RAILCAR ANALYSIS

Load Date: 6-4-92Product: 5265Car No.: 73379Time Logged In: 0530Logged In By: JSSilo(s): 687Ship Date: 6/15Order No: 10143-007Customer: Nibco

NO Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.07		.16		.10	
Contamination	BL		Y		5		4	
	BR		6		9		11	
Bulk Density	.544		.348		.532		.550	
BD w/antistat								
Viscosity	.653		.670		.646		.676	
RVCM	.192		.085		.201		.088	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>6/8</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>00</u>	<u>.16</u>	<u>5.76</u>	<u>11.59</u>	<u>16.64</u>	<u>10.43</u>	<u>4.21</u>	<u>1.22</u>
% P	<u>0.0</u>	<u>.3</u>	<u>11.5</u>	<u>23.2</u>	<u>33.3</u>	<u>20.9</u>	<u>8.4</u>	<u>2.4</u>

Static Flow: 017.4Avg. Microns: 141.5Color L: 99.76 a 0.75 b 1.50Technician: MIT & RH

VAB.0001202094

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 11, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: PTLX 42236

Ship Date: June 8, 1992

Order No.: 0010143-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.538
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		6.4
Pan		2.5
Residual VCM, ppm	ABGC-26	0.058
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202095

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 5-17-92Product: 5265Car No.: 42336Time Logged In: 0030Logged In By: DTSilo(s): 628, 680, 687, 688Ship Date: 6/8/92Order No: 10143-005Customer: Nibco*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.15		.14	
Contamination	BL							
	BR							
	<u>18</u>	—	<u>4</u>	—	<u>8</u>	—	<u>7</u>	—
	<u>6</u>		<u>5</u>		<u>3</u>		<u>5</u>	
Bulk Density	.539		.535		.540		.537	
BD w/antistat								
Viscosity	.653		.655		.653		.655	
RVCM	.058		.060		.054		.060	
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>.22</u>	<u>7.54</u>	<u>13.75</u>	<u>15.68</u>	<u>8.24</u>	<u>3.22</u>	<u>1.25</u>
%	<u>0.0</u>	<u>.4</u>	<u>15.1</u>	<u>27.5</u>	<u>31.6</u>	<u>16.5</u>	<u>6.4</u>	<u>2.5</u>

Static Flow: 0 / 7.9Avg. Microns: 147Color L: 99.40 a .81 b 1.97Technician: MS + HA

VAB.0001202096

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 11, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: GACX 73389

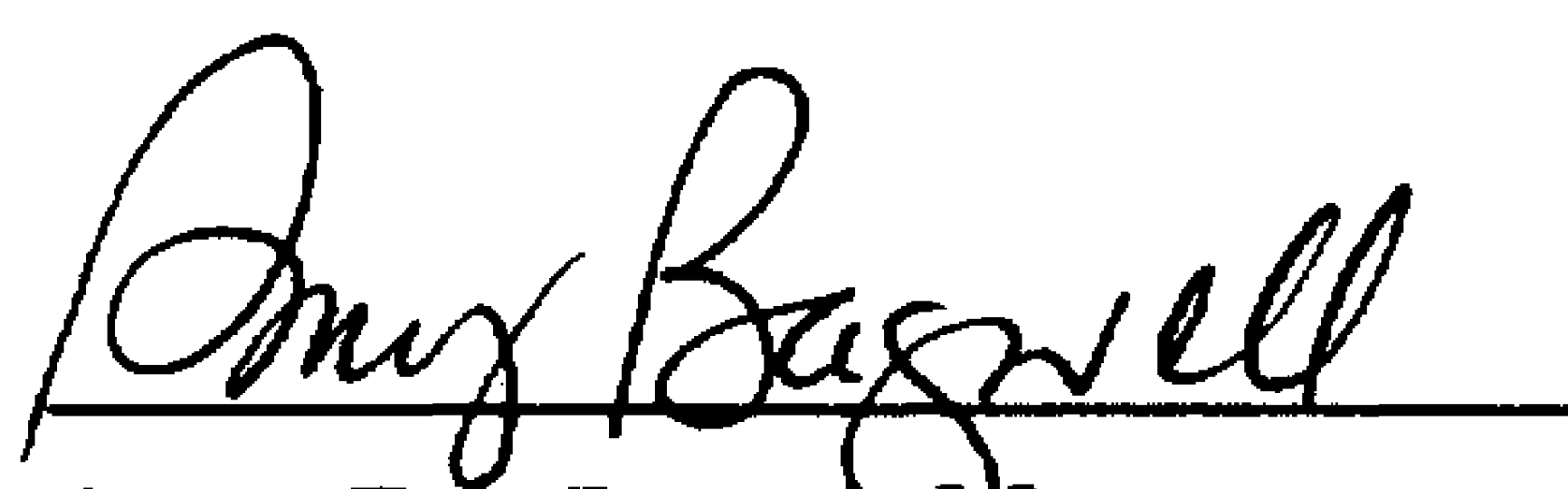
Ship Date: June 8, 1992

Order No.: 0010143-006

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.12
Bulk Density, gm/cc	ABR-2A	0.533
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		5.6
Pan		2.3
Residual VCM, ppm	ABGC-26	0.151
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202097

Viata Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-7-92Product: 5265Car No.: 73389Time Logged In: 0030Logged In By: DTSilo(s): 678, 688, 680, 687Ship Date: 6/8/92Order No: 10143-006 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.09		.10		.12	
Contamination	BL	8	4		8		8	
	BR	2	1		3		5	
Bulk Density	.534		.532		.531		.534	
BD w/antistat								
Viscosity	.654		.653		.654		.654	
RVCM	.157		.017		.104		.020	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	$\frac{1}{3}$							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.15</u>	<u>6.72</u>	<u>13.76</u>	<u>16.76</u>	<u>8.82</u>	<u>2.80</u>	<u>1.13</u>
%	<u>0.0</u>	<u>.3</u>	<u>13.4</u>	<u>27.5</u>	<u>33.3</u>	<u>17.6</u>	<u>5.6</u>	<u>2.3</u>

Static Flow: 0 / 7.7Avg. Microns: 146Color L: 99.45 a .71 b 2.05Technician: MM + HA

VAB.0001202098

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 8, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46419

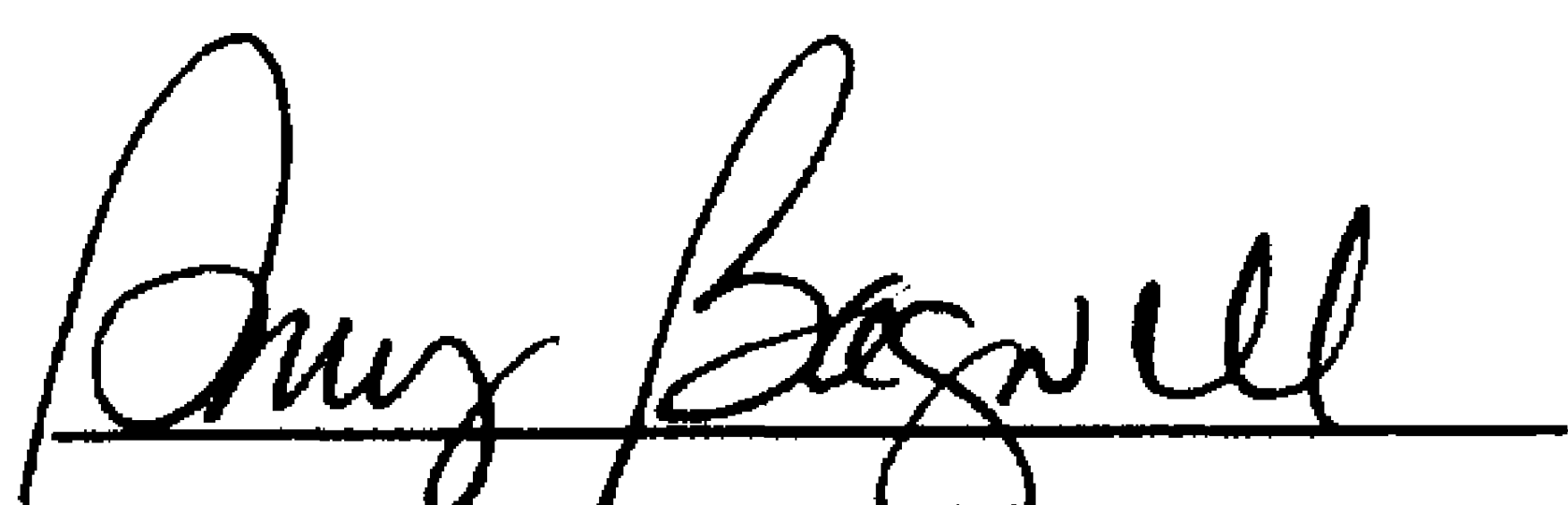
Ship Date: June 1, 1992

Order No.: 0010143-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.13
Bulk Density, gm/cc	ABR-2A	0.530
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		7.9
Pan		3.3
Residual VCM, ppm	ABGC-26	0.031
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202099

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-17-92 Product: 5265 Car No.: 46419
 Time Logged In: 0630 Logged In By: D.T. Silo(s): 688+680
 Ship Date: 6/1 Order No: 10143-002 Customer: Thbco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.09		.10	
Contamination	BL							
	BR							
	14	—	3	—	6	—	5	—
	3		6		5		3	
Bulk Density	.531		.530		.532		.528	
BD w/antistat								
Viscosity	.653		.653		.657		.654	
RVCM	.031		.213		.052		.023	
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>.18</u>	<u>6.19</u>	<u>12.60</u>	<u>16.00</u>	<u>9.59</u>	<u>3.97</u>	<u>1.46</u>
%	<u>0.0</u>	<u>.4</u>	<u>12.4</u>	<u>25.2</u>	<u>31.6</u>	<u>19.2</u>	<u>7.9</u>	<u>3.3</u>

Static Flow: 0 / 7.9Avg. Microns: 143Color L: 99.47 a .70 b 2.06Technician: MD + HA

VAB.0001202100

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: June 8, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: ACFX 41135

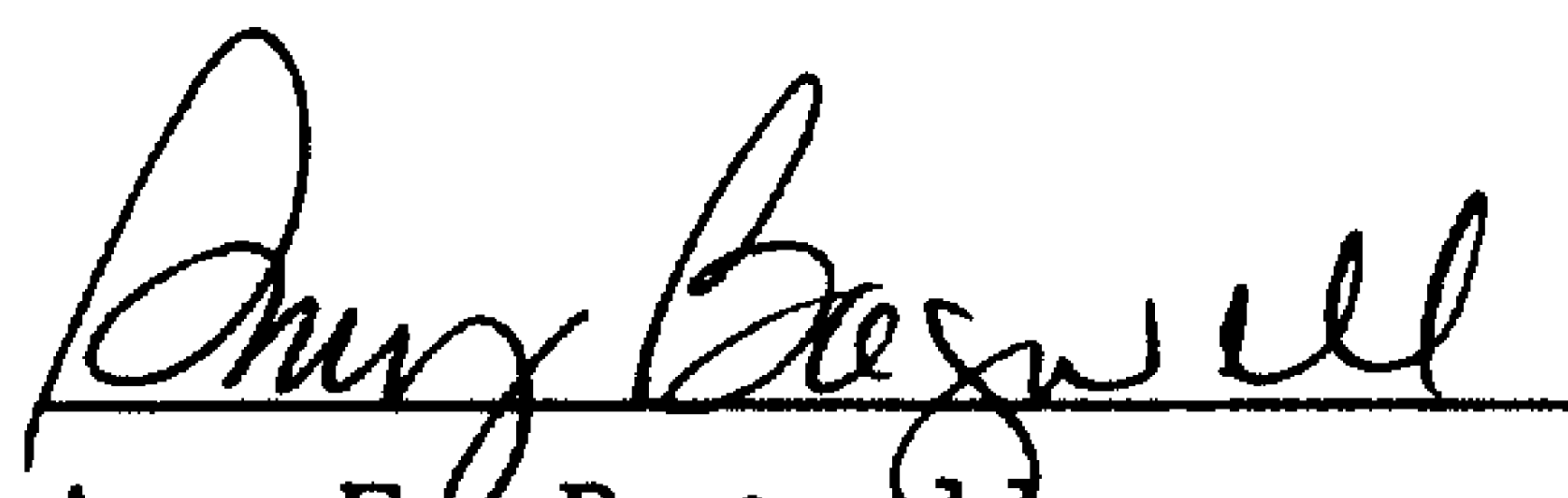
Ship Date: June 1, 1992

Order No.: 0010143-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.16
Bulk Density, gm/cc	ABR-2A	0.536
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		5.3
Pan		2.5
Residual VCM, ppm	ABGC-26	0.049
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202101

Vista Polymers

Highway 25

Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 5-16-92Product: 5265Car No.: 41135Time Logged In: 2300Logged In By: DTSilo(s): 680+688Ship Date: 6/1Order No: 1043-001Customer: LibcoNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.09		.11		.16		.14	
Contamination	BL							
	BR							
	<u>3</u>	<u>—</u>	<u>2</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>3</u>	<u>—</u>
	<u>7</u>		<u>8</u>		<u>9</u>		<u>8</u>	
Bulk Density	.541		.524		.540		.540	
BD w/antistat								
Viscosity	.657		.653		.656		.657	
RVCM	.049		.046		.038		.052	
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>0.14</u>	<u>6.41</u>	<u>13.69</u>	<u>17.14</u>	<u>8.77</u>	<u>2.64</u>	<u>1.27</u>
%	<u>0.0</u>	<u>0.3</u>	<u>12.8</u>	<u>27.4</u>	<u>34.2</u>	<u>17.5</u>	<u>5.3</u>	<u>2.5</u>

Static Flow: 0 / 8.5Avg. Microns: 145.7Color L: 99.33 a 0.90 b 1.85Technician: B & E

VAB.0001202102

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 8, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: ACFX 41178

Ship Date: June 1, 1992

Order No.: 0010143-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.18
Bulk Density, gm/cc	ABR-2A	0.543
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		6.0
Pan		1.7
Residual VCM, ppm	ABGC-26	0.059
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202103

PVC RAILCAR ANALYSIS

Load Date: 5-12-92 Product: 5265 Car No.: 41178
 Time Logged In: 1400 Logged In By: D.T. Silo(s): 628+680
 Ship Date: 6/1 Order No: 10143-000 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	<i>S-21</i>
Moisture %	<i>.10</i>		<i>.18</i>		<i>.15</i>		<i>.40</i>	<i>.06</i>
Contamination	BL		<i>6</i>		<i>7</i>		<i>6</i>	
	BR		<i>8</i>		<i>8</i>		<i>17</i>	
Bulk Density	<i>.556</i>		<i>.546</i>		<i>.550</i>		<i>.520</i>	
BD w/antistat								
Viscosity	<i>.651</i>		<i>.650</i>		<i>.654</i>		<i>.651</i>	
RVCM	<i>.059</i>		<i>.062</i>		<i>.075</i>		<i>.062</i>	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<i>6/11</i>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<i>0.0</i>	<i>.13</i>	<i>6.23</i>	<i>12.99</i>	<i>17.05</i>	<i>9.40</i>	<i>3.00</i>	<i>.86</i>
% P	<i>0.0</i>	<i>.3</i>	<i>12.5</i>	<i>26.0</i>	<i>34.7</i>	<i>18.8</i>	<i>6.0</i>	<i>1.7</i>

Static Flow: 017.0Avg. Microns: 145.3Color L: 99.20 a 0.90 b 1.81Technician: M.T. & TE

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Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: May 22, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: ACFX 41163

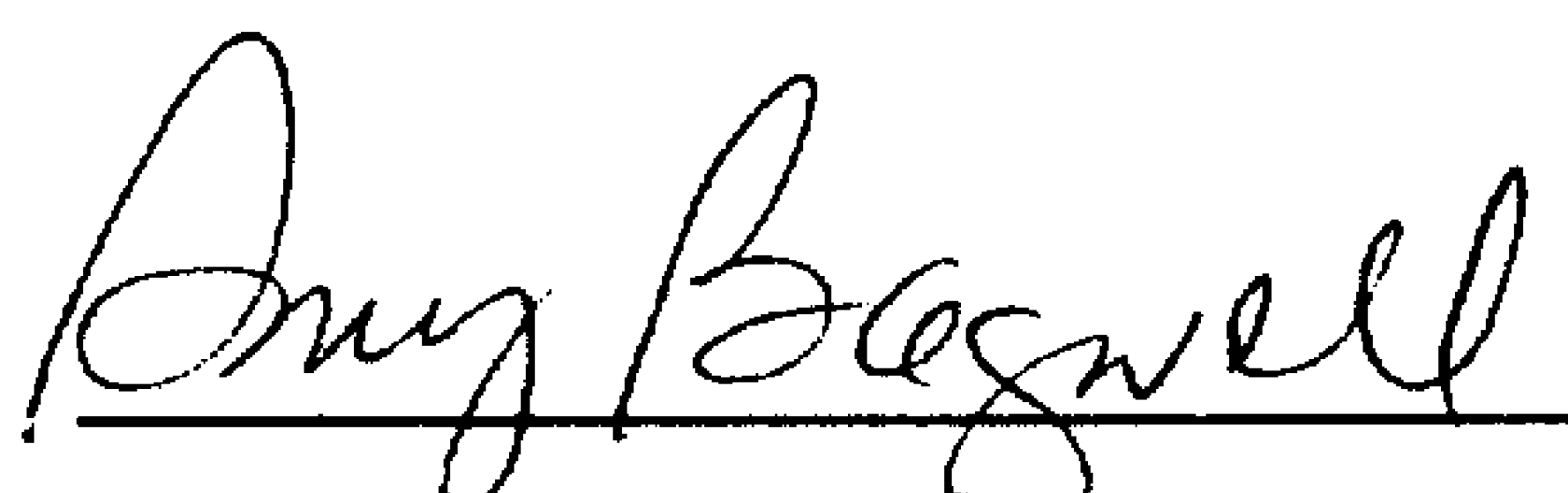
Ship Date: May 15, 1992

Order No.: 0009092-008

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.07
Bulk Density, gm/cc	ABR-2A	0.547
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		10.3
Pan		2.7
Residual VCM, ppm	ABGC-26	0.050
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202105

PVC RAILCAR ANALYSIS

Load Date: 4-23-92 & 5/13/92 Product: 5265 Car No.: 41163
 Time Logged In: 1300 Logged In By: MT Silo(s): 678
 Ship Date: 5/15/92 Order No: 9092-008 Customer: Tubco

<u>No Metal</u>							
<u>4/23 - 678</u>				<u>5/13/92 686,687</u>			
Compartment	<u>A</u> vis / RVCM		<u>CA</u> vis / RVCM		CB		B
Sample From	Bottom		Bottom		Bottom		Bottom
Moisture %	.07		.06		.05		.04
Contamination	BL BR	<u>4</u> <u>7</u>	—	<u>5</u> <u>6</u>	—	<u>3</u> <u>9</u>	<u>2</u> <u>8</u>
Bulk Density		.553		.550		.548	.536
BD w/antistat							
Viscosity		.655		.655		.665	.648
RVCM		.050		.051		.051	.056
Tappi Test Contamination Composite							
		.06 or less		.07 ----- .15		.20 ----- .60	
		<u>4/3</u>					

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.16</u>	<u>6.05</u>	<u>11.57</u>	<u>15.69</u>	<u>10.59</u>	<u>5.13</u>	<u>1.34</u>
%	<u>0.6</u>	<u>.3</u>	<u>12.1</u>	<u>23.1</u>	<u>30.3</u>	<u>21.2</u>	<u>10.3</u>	<u>2.7</u>

Static Flow: 0, 8.0Avg. Microns: 140.7Color L: 99.42 a 0.70 b 1.62Technician: ES + Co

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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: May 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: PLCX 43742

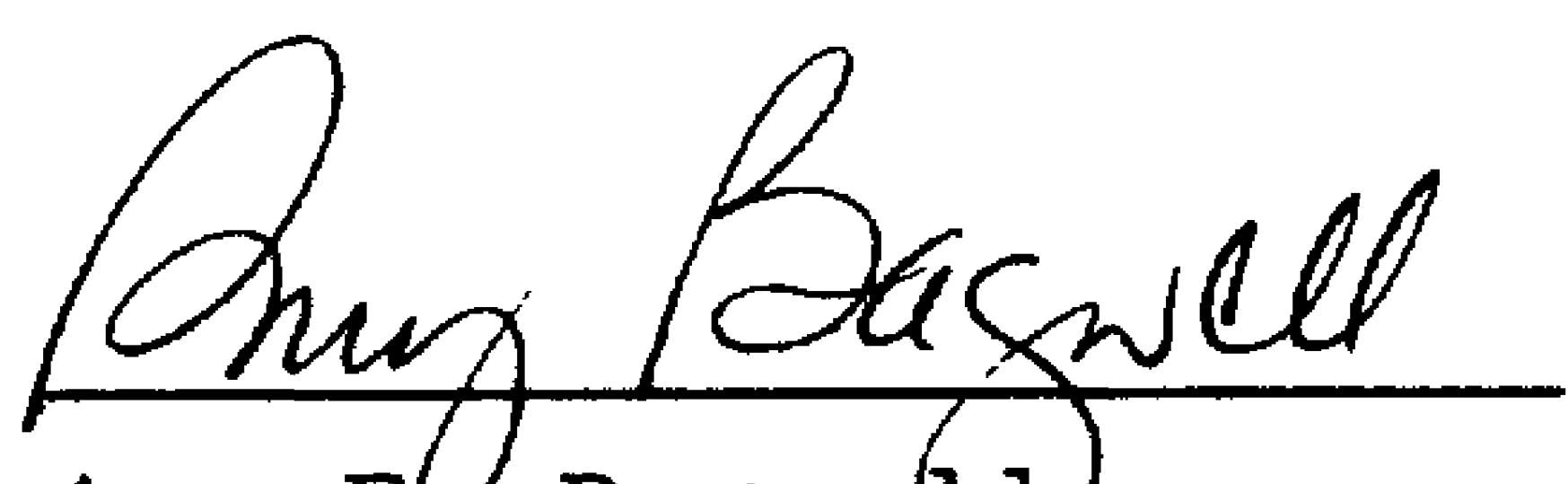
Ship Date: May 15, 1992

Order No.: 0009092-006

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.02
Bulk Density, gm/cc	ABR-2A	0.549
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		6.0
Pan		2.2
Residual VCM, ppm	ABGC-26	0.118
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202107

PVC RAILCAR ANALYSIS

Load Date: 5-13-92 Product: 5265 Car No.: 43742
 Time Logged In: 1400 Logged In By: DT Silo(s): 680 + 686
 Ship Date: 5/15 Order No: 9092-006 Customer: Nibco

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.01		.02		.02	
Contamination	BL BR	<u>5</u> <u>17</u>	— —	<u>4</u> <u>12</u>	— —	<u>5</u> <u>16</u>	<u>3</u> <u>12</u>	— —
Bulk Density		<u>.550</u>		<u>.547</u>		<u>.552</u>		<u>.545</u>
BD w/antistat								
Viscosity		<u>.653</u>		<u>.666</u>		<u>.652</u>		<u>.646</u>
RVCM		<u>.118</u>		<u>.050</u>		<u>.080</u>		<u>.061</u>
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>6/10</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>.00</u>	<u>.35</u>	<u>7.10</u>	<u>13.44</u>	<u>1635</u>	<u>8.48</u>	<u>3.00</u>	<u>1.08</u>
% P	<u>.00</u>	<u>.7</u>	<u>14.2</u>	<u>26.9</u>	<u>33.0</u>	<u>17.0</u>	<u>6.0</u>	<u>2.2</u>

Static Flow: 0.17.6Avg. Microns: 147.6Color L: 49.13 a 0.81 b 1.78Technician: MT & TE

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Post Office Box 91

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Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: May 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45748

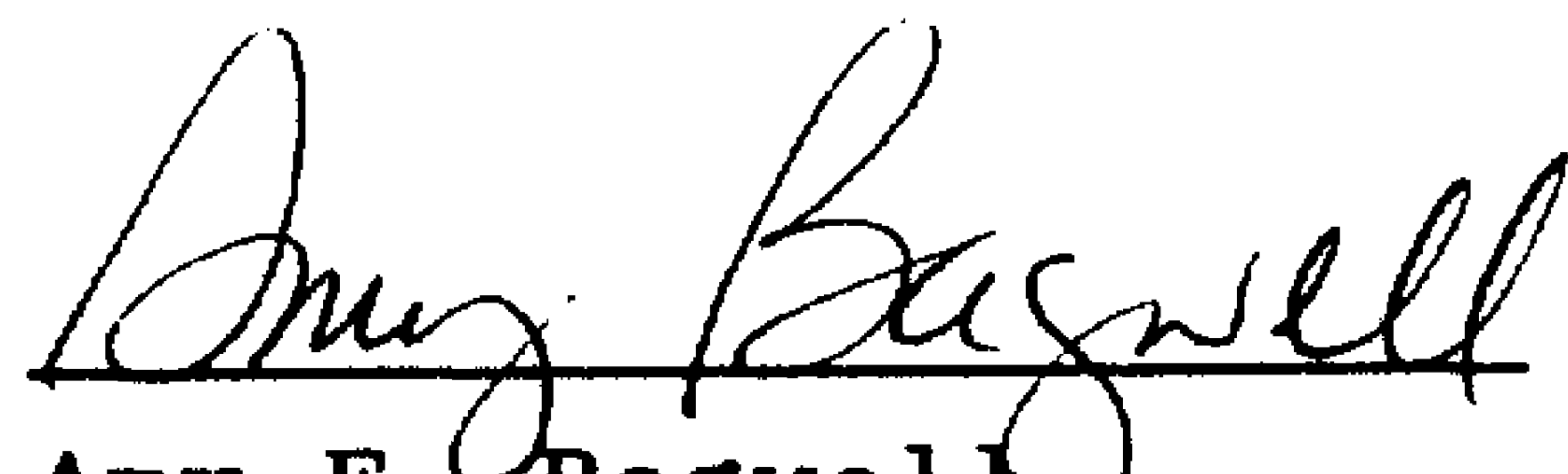
Ship Date: May 13, 1992

Order No.: 0009092-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.13
Bulk Density, gm/cc	ABR-2A	0.540
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		11.3
Pan		3.4
Residual VCM, ppm	ABGC-26	0.076
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202109

PVC RAILCAR ANALYSIS

Load Date: 5-11-92 Product: 5265 Car No.: 45748
 Time Logged In: 1630 Logged In By: F.T. Silo(s): 686
 Ship Date: 5/13/92 Order No: 9092-007 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.09		.11		.13	
Contamination	BL	4	7		5		4	
	BR	8	5		9		11	
Bulk Density	.543		.539		.541		.540	
BD w/antistat								
Viscosity	.657		.658		.659		.660	
RVCM	.054		.076		.060		.054	
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>.15</u>	<u>8.70</u>	<u>11.34</u>	<u>11.82</u>	<u>10.44</u>	<u>5.63</u>	<u>1.68</u>
%	<u>0.0</u>	<u>.3</u>	<u>17.4</u>	<u>22.7</u>	<u>24.0</u>	<u>20.9</u>	<u>11.3</u>	<u>3.4</u>

Static Flow: 0 / 7.9Avg. Microns: 143.6Color L: 98.53 a .89 b 1.52Technician: MJ VAA

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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

VISTA

Product: 5265

Attention: Steve Ryan

Railcar No.: PLCX 42999

Ship Date: May 4, 1992

Order No.: 0009092-004

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.22
Bulk Density, gm/cc	ABR-2A	0.544
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.5
Pan		4.1
Residual VCM, ppm	ABGC-26	0.053
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202111

PVC RAILCAR ANALYSIS

Load Date: 4-17-92 Product: 5265 Car No.: 42999
 Time Logged In: 0230 Logged In By: P.T. Silo(s): 678, 688, 687, 686
 Ship Date: 5/4 Order No: 9092-004 Customer: Nibco

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.16		.22	<i>rest. 4-21-92</i>	.06		.06	
Contamination	BL	<u>2</u>	<u>17</u>		<u>2</u>		<u>4</u>	
	BR	<u>22</u>	<u>27</u>		<u>18</u>		<u>16</u>	
Bulk Density	.547		.546		.542		.542	
BD w/antistat								
Viscosity	.668		.669		.669		.666	
RVCM	.053		.057		.145		.142	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>52</u> <u>64</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.05</u>	<u>4.26</u>	<u>9.42</u>	<u>14.13</u>	<u>12.39</u>	<u>7.75</u>	<u>2.03</u>
%	<u>0.0</u>	<u>0.1</u>	<u>8.5</u>	<u>18.8</u>	<u>28.2</u>	<u>24.8</u>	<u>15.5</u>	<u>4.1</u>

Static Flow: 0 18.7Avg. Microns: 131.8Color L: 99.25 a 0.75 b 1.40Technician: Co & Ed

Vista Polymers
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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: May 6, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46552

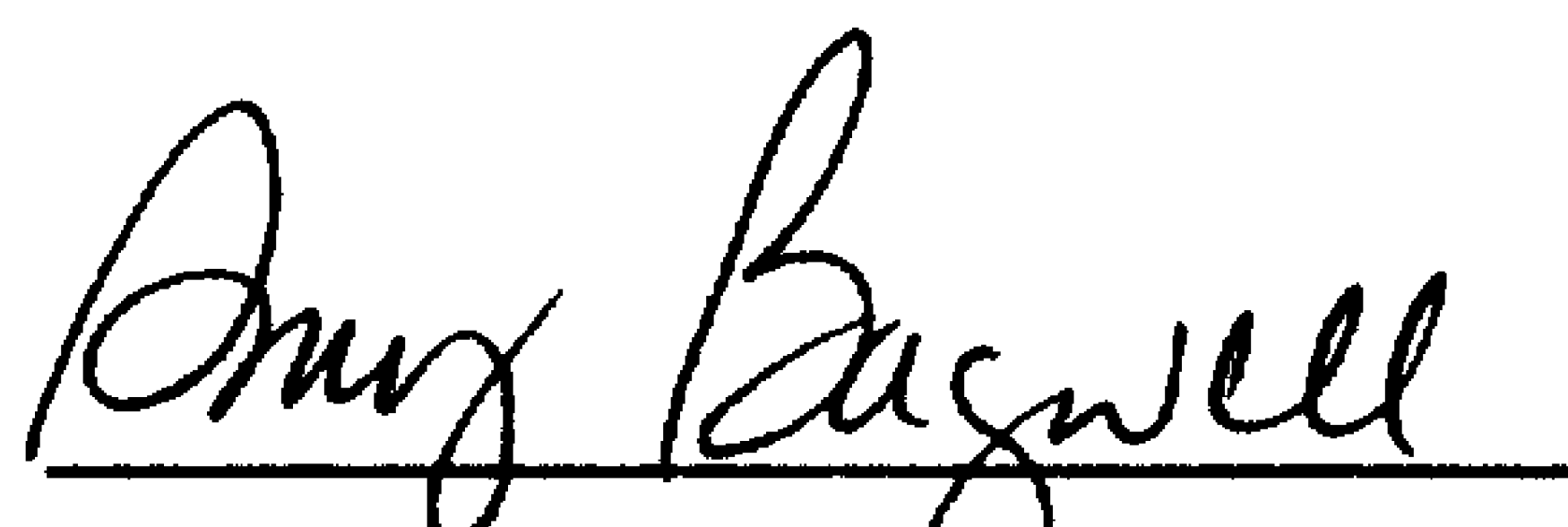
Ship Date: May 4, 1992

Order No.: 0009092-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.23
Bulk Density, gm/cc	ABR-2A	0.536
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.0
Pan		2.8
Residual VCM, ppm	ABGC-26	0.051
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202113

PVC RAILCAR ANALYSIS

Load Date: 4-19-92Product: 5265Car No.: 46552Time Logged In: 1600Logged In By: CSSilo(s): 678-688Ship Date: 5/4Order No: 9092-003Customer: NibcoNO META

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.15		.23		.18	
Contamination	BL <u>5</u>	—	5	—	8	—	9	—
	BR <u>6</u>		9		10		8	
Bulk Density	.523		.544		.555		.543	
BD w/antistat								
Viscosity	.667		.665		.667		.666	
RVCM	.051		.046		.050		.052	
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>0.02</u>	<u>4.08</u>	<u>9.20</u>	<u>14.58</u>	<u>13.13</u>	<u>7.50</u>	<u>1.38</u>
%	<u>0.0</u>	<u>0.0</u>	<u>8.2</u>	<u>18.4</u>	<u>29.3</u>	<u>26.3</u>	<u>15.0</u>	<u>2.8</u>

Static Flow: 1,8.0Avg. Microns: 1325Color L: 99.36 a 0.62 b 1.44Technician: DT. FADL

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

A

CERTIFICATE OF ANALYSIS

Date: May 6, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46421

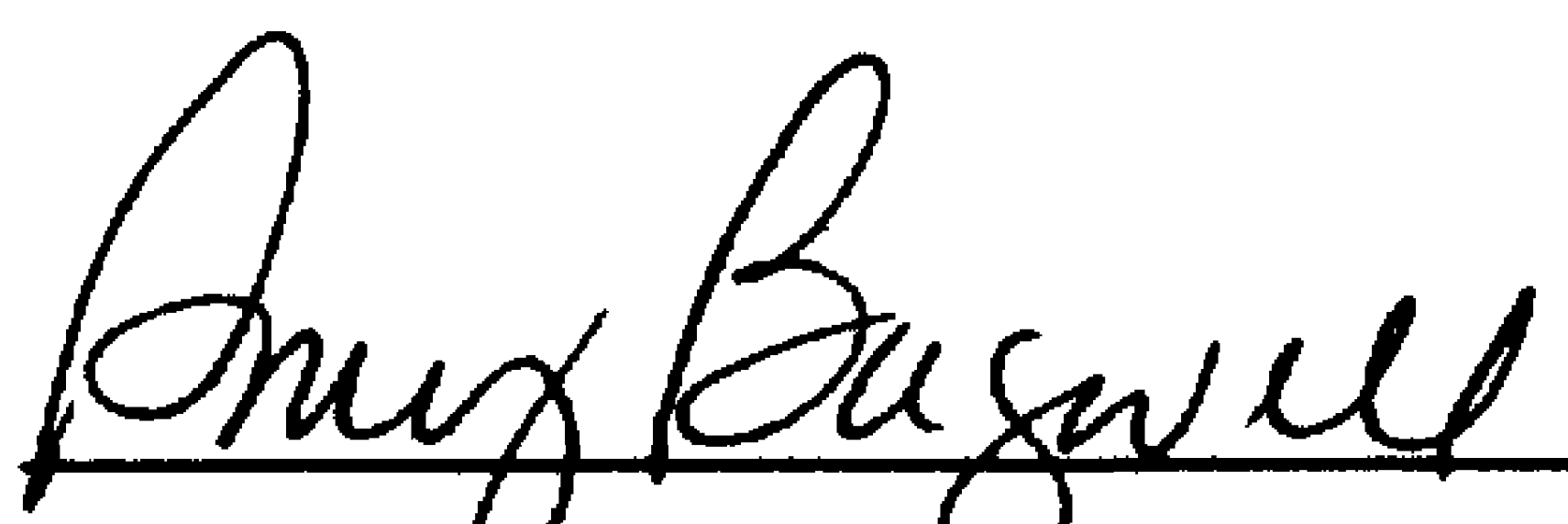
Ship Date: May 4, 1992

Order No.: 0009092-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.09
Bulk Density, gm/cc	ABR-2A	0.540
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.8
Pan		3.2
Residual VCM, ppm	ABGC-26	0.097
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202115

PVC RAILCAR ANALYSIS

Load Date: 4-21-92Product: 5265Car No.: 46421Time Logged In: 1130Logged In By: MGSilo(s): 678-680-688Ship Date: 5/4Order No: 9092-002Customer: Nibco

- NO METAL -

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.08		.09		.08	
Contamination	BL	2	4		3		4	
	BR	5	11		7		9	
Bulk Density	.540		.537		.541		.542	
BD w/antistat								
Viscosity	.672		.662		.662		.663	
RVCM	.097		.104		.067		.066	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/9							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.00</u>	<u>3.29</u>	<u>8.82</u>	<u>15.02</u>	<u>13.54</u>	<u>7.88</u>	<u>1.60</u>
%	<u>0.0</u>	<u>0.0</u>	<u>6.6</u>	<u>17.6</u>	<u>29.7</u>	<u>27.1</u>	<u>15.8</u>	<u>3.2</u>

Static Flow: 0 / 7.8Avg. Microns: 130.1Color L: 99.28 a 0.63 b 1.47Technician: TE mly

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Highway 25
Post Office Box 91

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

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CERTIFICATE OF ANALYSIS

Date: May 1, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45810

Ship Date: April 27, 1992

Order No.: 0009788-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.08
Bulk Density, gm/cc	ABR-2A	0.540
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.3
Pan		3.5
Residual VCM, ppm	ABGC-26	0.056
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202117

PVC RAILCAR ANALYSIS

Load Date: 4-18-92 Product: 5265 Car No.: 45810
 Time Logged In: 1400 Logged In By: CO Silo(s): 628-686
 Ship Date: 4/27 Order No: 9788-000 Customer: Nibco

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.05		.04		.04	
Contamination	BL		8		9		8	
	BR		9		12		7	
Bulk Density	.546		.538		.538		.538	
BD w/antistat								
Viscosity	.666		.665		.665		.662	
RVCM	.056		.049		.060		.059	
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>0.03</u>	<u>4.03</u>	<u>9.45</u>	<u>14.68</u>	<u>12.65</u>	<u>17.66</u>	<u>1.75</u>
%	<u>0.0</u>	<u>0.1</u>	<u>8.1</u>	<u>18.9</u>	<u>28.8</u>	<u>25.3</u>	<u>15.3</u>	<u>3.5</u>

Static Flow: 0 8.7Avg. Microns: 132.1Color L: 97.27 a 0.60 b 1.47Technician: D.T. + HDL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 4/21/92

Product: 5265

VISTA

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Order No.: 0009906-003

Attention: Steve Ryan

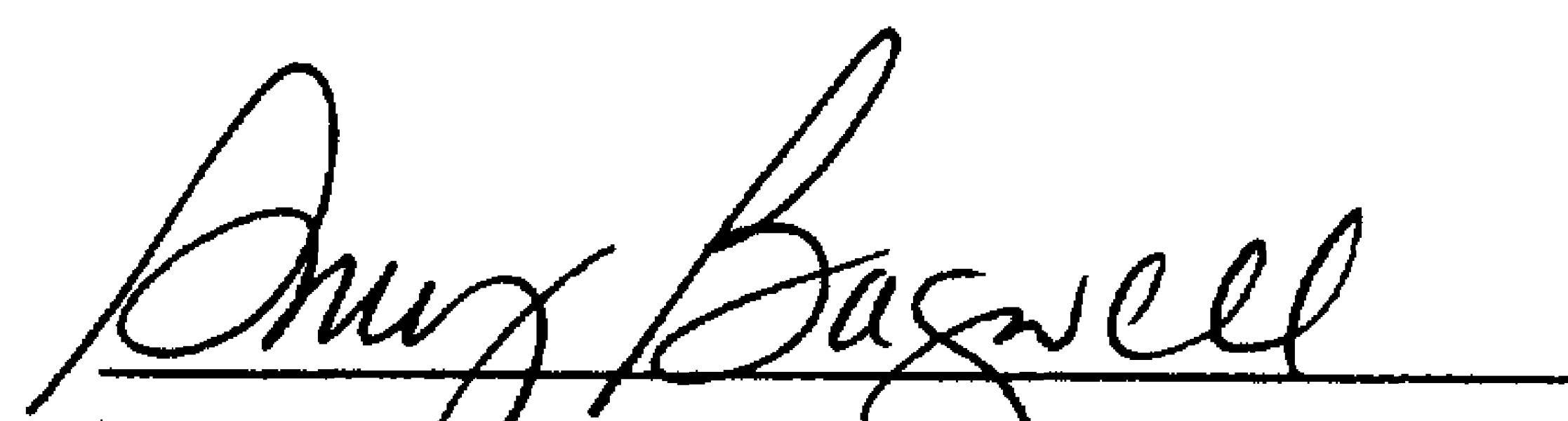
Cust. PO No.: —

Ship Date: 4/21/92

Trailer No.: T-380

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.531</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>13.2</u>
Pan		<u>3.7</u>
Residual VCM, ppm	ABGC-26	<u> </u>
Inherent Viscosity	ABR-10	<u>.68</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202119

PVC BULK TRAILER ANALYSIS

A

Date 4-21-92 Product 5265 Trailer Number 7-380
 Customer Nibco Silo 680 Time 1500
 Technician MA Order No. 0009906-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>4/4</u>		1.	<u>.531</u>	1. <u>—</u>	L = <u>99.13</u>	<u>Flow</u> <u>9.1</u>	
	2.		2.		2.		2.	A = <u>.61</u>		
MIDDLE	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
END	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.05</u>	<u>4.53</u>	<u>9.88</u>	<u>14.95</u>	<u>12.24</u>	<u>6.62</u>	<u>1.85</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>9.1</u>	<u>19.8</u>	<u>29.6</u>	<u>24.5</u>	<u>13.2</u>	<u>3.7</u>	

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

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

Remarks _____

VAB.0001202120

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: 4/21/92

Product: 5265

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Order No.: 0009957-003

Attention: Steve Ryan

Cust. PO No.: —

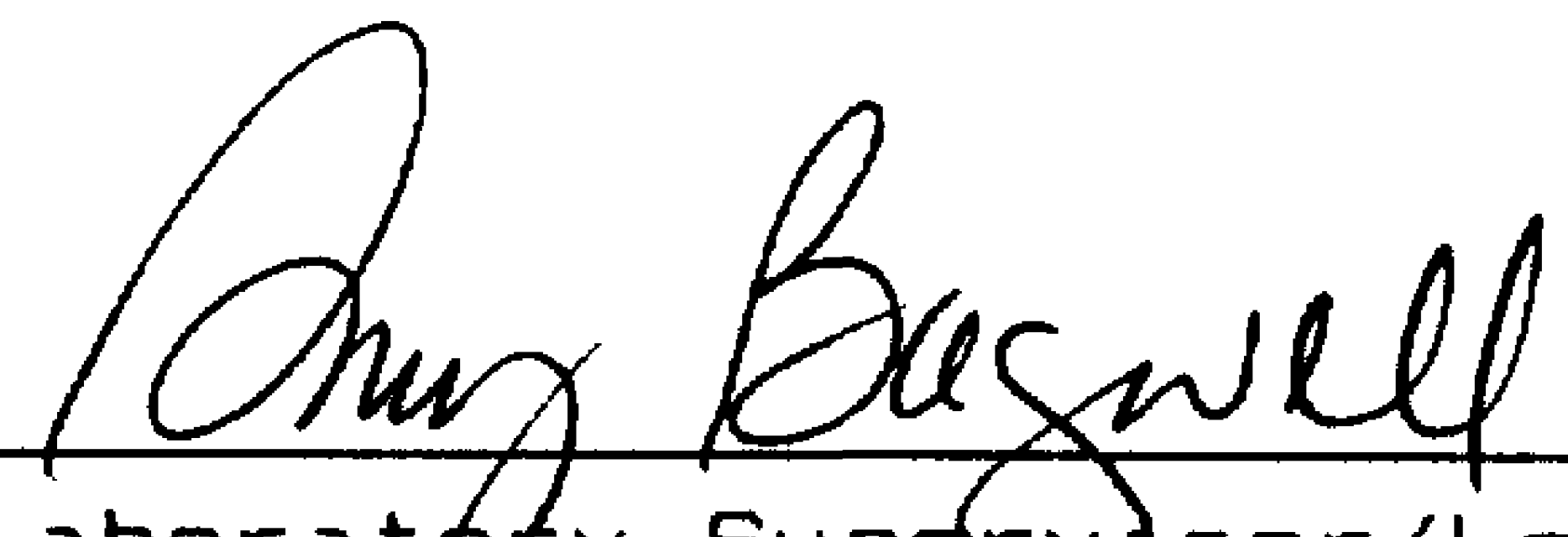
Ship Date: 4/21/92

Trailer No.: T 381

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.09</u>
Bulk Density, gm/cc	ABR-2A	<u>.545</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>12.4</u>
Pan		<u>3.9</u>
Residual VCM, ppm	ABGC-26	<u> </u>
Inherent Viscosity	ABR-10	<u>.66</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202121

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: 4/20/92

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Product: 5265

VISTA

Order No.: 0009957-000

Attention: Steve Ryan

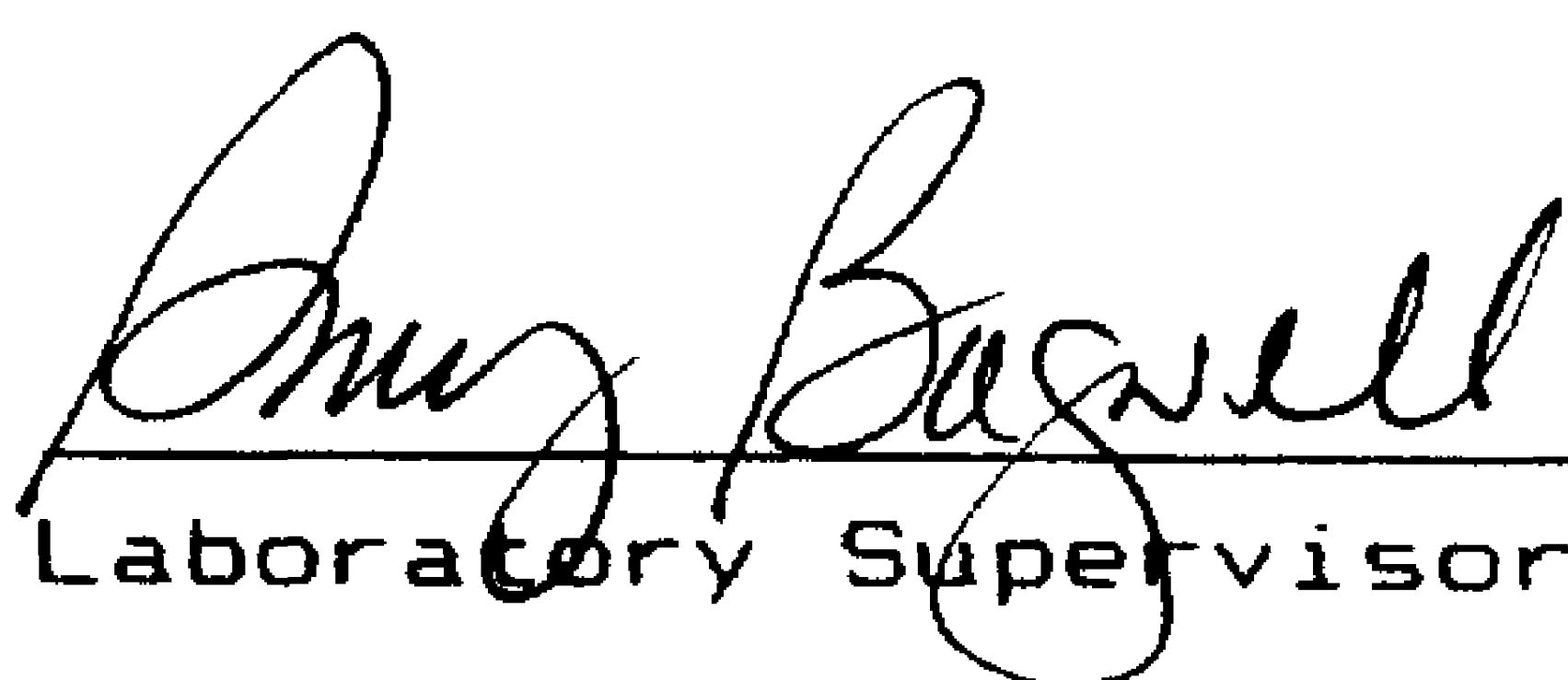
Cust. PO No.: —

Ship Date: 4/20/92

Trailer No.: T-380

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.531</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>14.3</u>
Pan		<u>3.1</u>
Residual VCM, ppm	ABGC-26	<u>.068</u>
Inherent Viscosity	ABR-10	<u>.67</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202122

PVC BULK TRAILER ANALYSIS

Date 4-20-92 Product 5265 Trailer Number T-380
Customer Nibco Silo 687 Time 1300
Technician MATE Order No. 0009957-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>4/9</u>		1. <u>-</u>	1. <u>.531</u>	1. <u>-</u>	L = <u>97.00</u>	<u>Flow</u> <u>87</u> <u>8.2</u>	
	2.		2.		2.	2.	2.	A = <u>.55</u>		
								B = <u>1.44</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.00</u>	<u>3.90</u>	<u>9.22</u>	<u>14.92</u>	<u>13.28</u>	<u>7.17</u>	<u>1.56</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>7.8</u>	<u>18.4</u>	<u>29.8</u>	<u>26.6</u>	<u>14.3</u>	<u>3.1</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 20 April 92

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Product: 5265

VISTA

Order No.: 000 9957-002

Attention: Steve Ryan

Cust. PO No.:

Ship Date: 20 April 92

Trailer No.: T-384

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	ABR-2A	<u>.532</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>15.0</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.058</u>
Inherent Viscosity	ABR-10	<u>.67</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

James M. Gray
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202124

PVC BULK TRAILER ANALYSIS

A

Date 4-20-92 Product 5265 Trailer Number T-384
 Customer Nibco Silo 687 Time 1730
 Technician MA Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>3/6</u>		1.	1. <u>.532</u>	1.	L = <u>99.10</u>	<u>Flow</u> <u>98.0</u>	
	2.		2.		2.	2.	2.	A = <u>.52</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.00</u>	<u>3.65</u>	<u>9.18</u>	<u>14.95</u>	<u>14.11</u>	<u>7.51</u>	<u>1.31</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>7.3</u>	<u>18.4</u>	<u>28.5</u>	<u>28.2</u>	<u>15.0</u>	<u>2.6</u>	

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

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

Remarks _____

VAB.0001202125

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: 4/20/92

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Product: 5265

VISTA

Order No.: 0009906-002

Attention: Steve Ryan

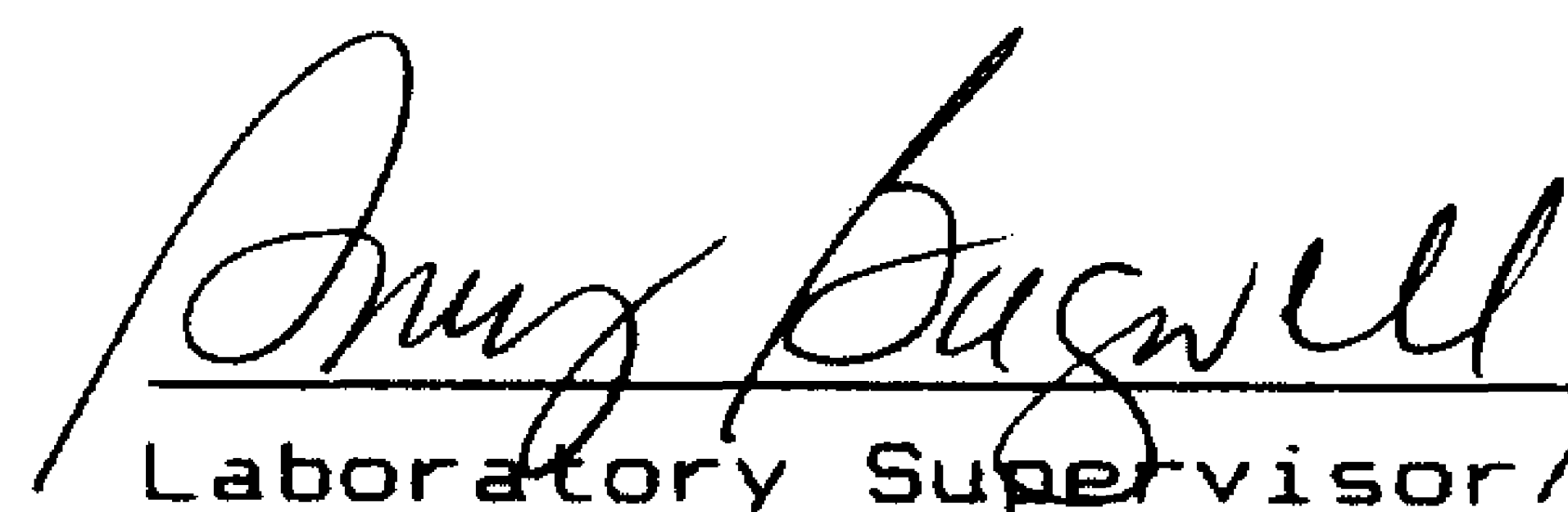
Cust. PO No.: —

Ship Date: 4/20/92

Trailer No.: T-372

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	ABR-2A	<u>.546</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>12.2</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.075</u>
Inherent Viscosity	ABR-10	<u>.67</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202126

PVC BULK TRAILER ANALYSIS

A

Date 4/19/92 Product 5265 Trailer Number T 372
 Customer NIBCO Silo 687 Time 2400 - 0040
 Technician KDL/DT Order No. 000 9906-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>5/15</u>		1. <u>—</u>	1. <u>.546</u>	1. <u>—</u>	L = <u>98.86</u>		<u>7.5</u>
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.95</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>no</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>Manual</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.09</u>	<u>5.25</u>	<u>10.15</u>	<u>15.09</u>	<u>12.10</u>	<u>6.11</u>	<u>1.32</u>	
% on Mesh	<u>0.00</u>	<u>0.2</u>	<u>10.5</u>	<u>20.3</u>	<u>30.0</u>	<u>24.2</u>	<u>12.2</u>	<u>2.6</u>	

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

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

Remarks _____

VAB.0001202127

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 22, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

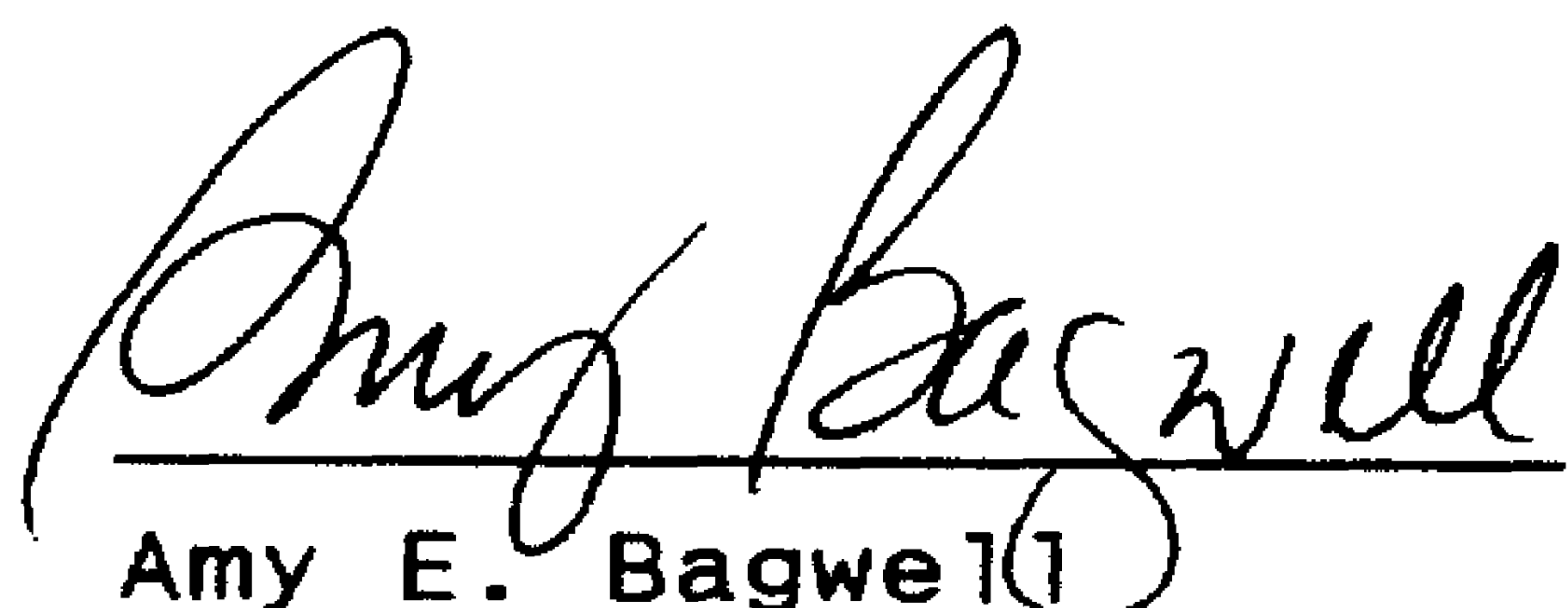
Railcar No.: VIPX 45739

Ship Date: April 20, 1992

Order No.: 0007298-005

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.11
Bulk Density, gm/cc	ABR-2A	0.545
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.6
Pan		4.1
Residual VCM, ppm	ABGC-26	0.120
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202128

PVC RAILCAR ANALYSIS

Load Date: 4-16-92 Product: 5265 Car No.: 45739
 Time Logged In: 0230 Logged In By: D.T. Silo(s): 686, 687, 688
 Ship Date: 4/20 Order No: 7298-005 Customer: Nibco

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.08		.07		.06		.11	
Contamination ^{BL} BR	$\frac{3}{6}$	—	$\frac{2}{5}$	—	$\frac{4}{7}$	—	$\frac{3}{8}$	—
Bulk Density	.541		.544		.551		.543	
BD w/antistat								
Viscosity	.657		.655		.657		.659	
RVCM	.120		.070		.073		.085	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	$\frac{3}{5}$							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.04</u>	<u>3.88</u>	<u>9.35</u>	<u>14.31</u>	<u>12.57</u>	<u>7.81</u>	<u>2.07</u>
%	<u>0.0</u>	<u>0.1</u>	<u>7.8</u>	<u>18.7</u>	<u>28.6</u>	<u>25.1</u>	<u>15.6</u>	<u>4.1</u>

Static Flow: 0.19.0Avg. Microns: 131.1Color L: 97.81 a 0.60 b 1.24Technician: W.H.S.

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 22, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

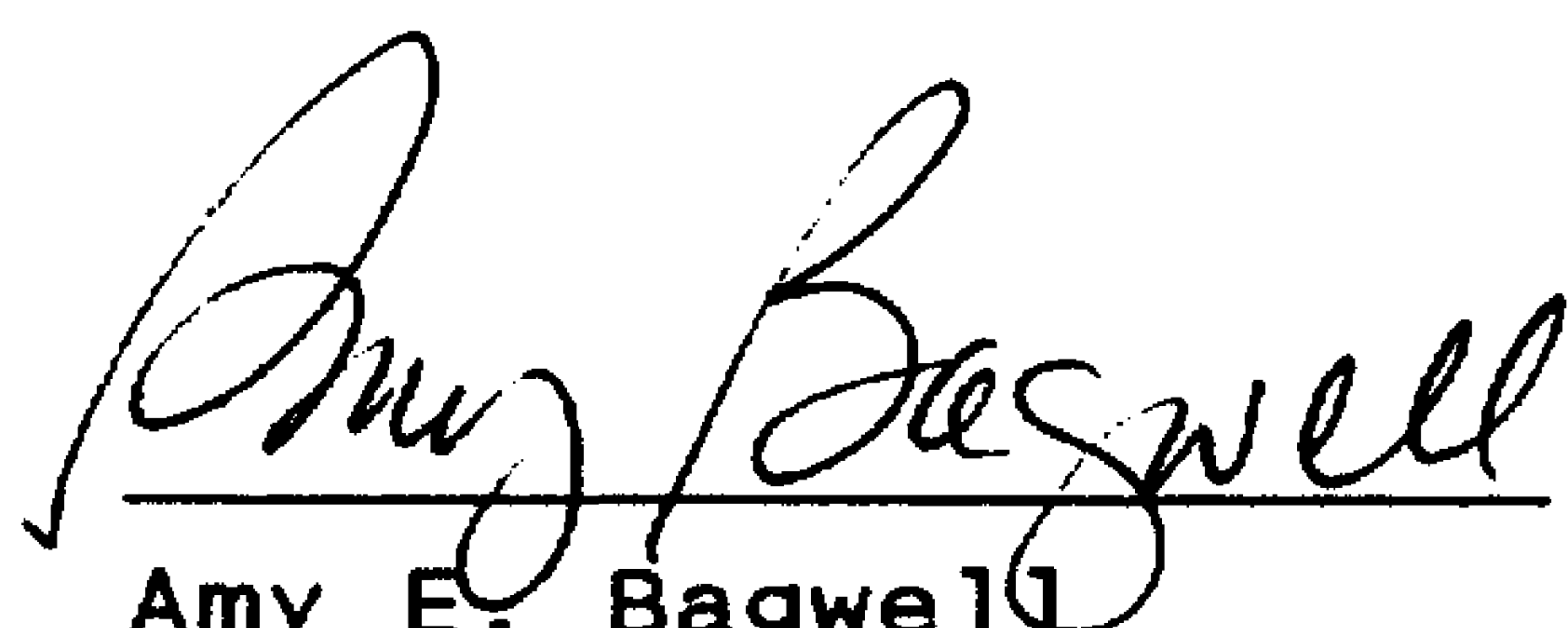
Railcar No.: ACFX 41159

Ship Date: April 20, 1992

Order No.: 0009092-001

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.07
Bulk Density, gm/cc	ABR-2A	0.538
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.8
Pan		4.8
Residual VCM, ppm	ABGC-26	0.077
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202130

PVC RAILCAR ANALYSIS

Load Date: 4-16-92 Product: 5265 Car No.: 41159
 Time Logged In: 1800 Logged In By: Co Silo(s): 678; 688
 Ship Date: 4/20 Order No: 9092-001 Customer: Nibco

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.06		.05		.06	
Contamination	BL		5		8		3	
	BR		7		5		8	
Bulk Density	.540		.536		.540		.536	
BD w/antistat								
Viscosity	.647		.656		.646		.659	
RVCM	.077		.065		.072		.079	
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>0.11</u>	<u>4.31</u>	<u>9.82</u>	<u>13.95</u>	<u>11.25</u>	<u>7.90</u>	<u>2.40</u>
%	<u>0.0</u>	<u>0.2</u>	<u>8.6</u>	<u>19.6</u>	<u>28.5</u>	<u>22.5</u>	<u>15.8</u>	<u>4.8</u>

Static Flow: 0, 9.1Avg. Microns: 131.9Color L: 99.16 a 0.66 b 1.52Technician: D. L. R. H.

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: 20 April 92

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Product: 5265

VISTA

Order No.: 000 9957-001

Attention: Steve Ryan

Cust. PO No.:

Ship Date: 20 April 92

Trailer No.: T-371

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.14</u>
Bulk Density, gm/cc	ABR-2A	<u>.530</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>12.0</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.020</u>
Inherent Viscosity	ABR-10	<u>.68</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

James M. Gray
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202132

PVC BULK TRAILER ANALYSIS

A

Date 4-20-92 Product S265 Trailer Number T-371
 Customer Nibco Silo 687 Time 1700
 Technician MJ Order No. 0009957-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>14</u>		1. <u>3/6</u>		1.	1. <u>.530</u>	1. <u>—</u>	L = <u>99.07</u>	<u>Flow</u> <u>9/23</u>	
	2.		2.		2.	2.	2.	A = <u>.57</u>		
								B = <u>1.50</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.08</u>	<u>5.21</u>	<u>10.20</u>	<u>15.02</u>	<u>12.08</u>	<u>6.01</u>	<u>1.29</u>	
% on Mesh	<u>0.0</u>	<u>.2</u>	<u>10.4</u>	<u>20.4</u>	<u>30.2</u>	<u>24.2</u>	<u>12.0</u>	<u>2.6</u>	

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

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

Remarks _____

VAB.0001202133

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: 4-19-92

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Product: 5265

VISTA

Order No.: 0009906-000

Attention: Steve Ryan

Cust. PO No.: 483170

Ship Date: 4-19-92

Trailer No.: T-371

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.542</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>10.6</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.084</u>
Inherent Viscosity	ABR-10	<u>.66</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Curtis Outlow

Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202134

PVC BULK TRAILER ANALYSIS

A

Date 4-17-92 Product 5265 Trailer Number T-371
 Customer Nibco Silo 678 Time 1900-1940
 Technician D.T. + HDL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>08</u>		1. <u>7</u>		1. <u>—</u>	1. <u>.542</u>	1. <u>—</u>	L = <u>99.04</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.58</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>	<u>0</u> <u>9.3</u>	<u>NO METAL</u>
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.13</u>	<u>5.97</u>	<u>10.63</u>	<u>15.13</u>	<u>10.98</u>	<u>5.31</u>	<u>1.30</u>	
% on Mesh	<u>0.0</u>	<u>23</u>	<u>11.9</u>	<u>21.3</u>	<u>29.3</u>	<u>22.0</u>	<u>10.6</u>	<u>2.6</u>	

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

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

Remarks _____

VAB.0001202135

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: 4-18-92

Customer: Nibco, Inc.
1900 Old Union Pt. Road
Greensboro, GA 30642

Product: 5265

VISTA

Order No.: 0009906-001

Attention: Steve Ryan

Cust. PO No.:

Ship Date: 4-18-92

Trailer No.: T-384

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.22</u>
Bulk Density, gm/cc	ABR-2A	<u>.538</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>13.0</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.108</u>
Inherent Viscosity	ABR-10	<u>.66</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

David Thompson
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202136

PVC BULK TRAILER ANALYSIS

A

Date 4-17-92 Product 5265 Trailer Number T-384
 Customer Nipco Silo 688 Time 1900-2000
 Technician Pete + HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>22</u>		1. <u>9</u>		1. <u>-</u>	1. <u>538</u>	1. <u>-</u>	L = <u>9905</u>		
	2. <u>4</u>		2. <u>4</u>		2. <u>-</u>	2. <u>538</u>	2. <u>-</u>	A = <u>0.58</u>		
MIDDLE	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>	<u>0</u> <u>8.9</u>	<u>NO</u> <u>THICK</u>
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		
END	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.08</u>	<u>4.81</u>	<u>10.20</u>	<u>15.00</u>	<u>12.18</u>	<u>6.48</u>	<u>1.32</u>	
% on Mesh	<u>0.0</u>	<u>0.2</u>	<u>9.6</u>	<u>20.4</u>	<u>29.8</u>	<u>24.4</u>	<u>13.0</u>	<u>2.6</u>	

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

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

Remarks _____

VAB.0001202137

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 15, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

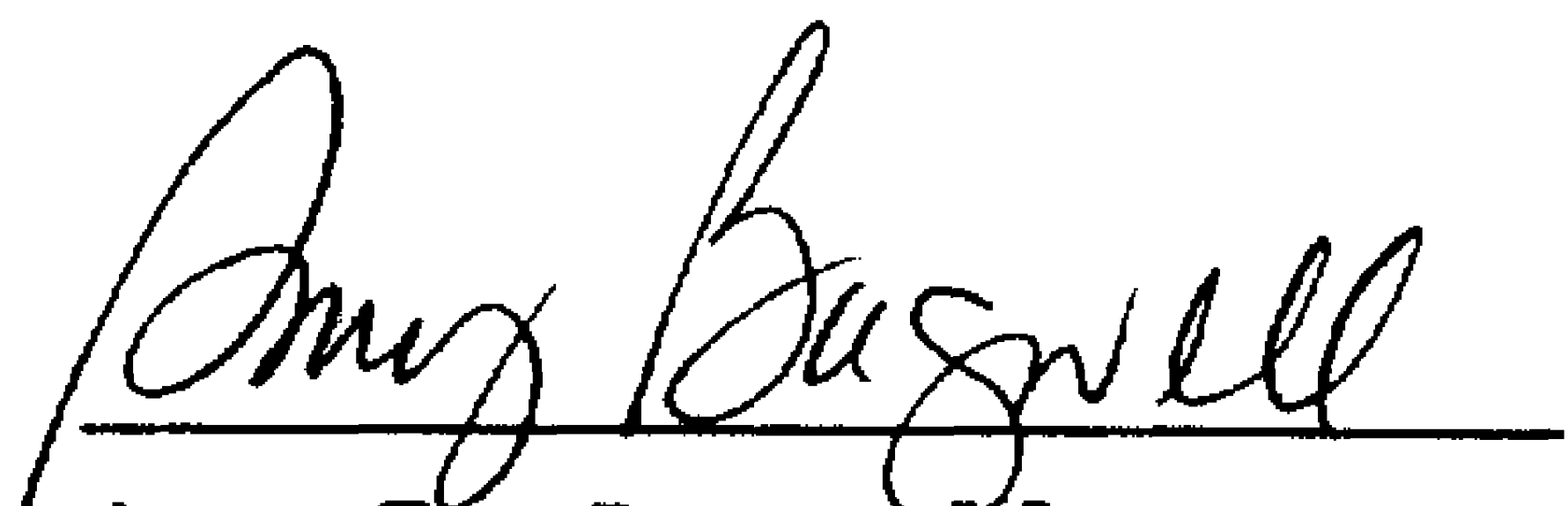
Railcar No.: GACX 73379

Ship Date: April 13, 1992

Order No.: 0007298-003

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.05
Bulk Density, gm/cc	ABR-2A	0.551
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		12.3
Pan		3.2
Residual VCM, ppm	ABGC-26	0.192
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202138

PVC RAILCAR ANALYSIS

Load Date: 3-18-92Product: 5265Car No.: 73379Time Logged In: 0500Logged In By: MTSilo(s): 687-688Ship Date: 4/13Order No: 7298-003Customer: Nibcono metal

Compartment	A		CA		CB <u>MT</u>		B <u>MT</u>	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.03		.03		.05	
Contamination <u>BL</u>	<u>3</u>	—	<u>4</u>	—	<u>3</u>	—	<u>4</u>	—
<u>BR</u>	<u>7</u>		<u>5</u>		<u>7</u>		<u>9</u>	
Bulk Density	.546		.565		.542		.550	
BD w/antistat								
Viscosity	.664		.663		.662		.664	
RVCM	.086		.062		.021		.192	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>5/6</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.08</u>	<u>4.42</u>	<u>10.80</u>	<u>15.28</u>	<u>11.55</u>	<u>6.13</u>	<u>1.62</u>
% P	<u>0.0</u>	<u>.2</u>	<u>8.8</u>	<u>21.6</u>	<u>30.8</u>	<u>23.1</u>	<u>12.3</u>	<u>3.2</u>

Static Flow: 0 18.3Avg. Microns: 135.7Color L: 100.16 a 0.50 b 1.31Technician: M.T & R.H

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 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

Railcar No.: ACFX 41160

Ship Date: April 8, 1992

Order No.: 0009575-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.549
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.8
Pan		3.6
Residual VCM, ppm	ABGC-26	0.023
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202140

Viata Polymers

Highway 25

Aberdeen, MS 39730

Last Cont. 5265

PVC RAILCAR ANALYSIS

Load Date: 2-16-92Product: 5265Car No.: 41160Time Logged In: 1200Logged In By: RZSilo(s): 688, 678, 686Ship Date: 4/8/92Order No: 9575-000Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.12		.14	
Contamination	BL							
	BR							
	<u>5</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>5</u>	<u>—</u>
	<u>4</u>		<u>6</u>		<u>4</u>		<u>7</u>	
Bulk Density	.546		.548		.550		.551	
BD w/antistat								
Viscosity	.661		.654		.663		.645	
RVCM	.023		.028		.015		.039	
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>0.00</u>	<u>2.10</u>	<u>8.41</u>	<u>16.12</u>	<u>13.58</u>	<u>7.88</u>	<u>1.78</u>
%	<u>0.0</u>	<u>0.0</u>	<u>4.2</u>	<u>16.8</u>	<u>32.4</u>	<u>27.2</u>	<u>15.8</u>	<u>3.6</u>

Static Flow: 0 / 8.0Avg. Microns: 127.6Color L: 99.03 a .85 b 1.70Technician: MJL TE

VAB.0001202141

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 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

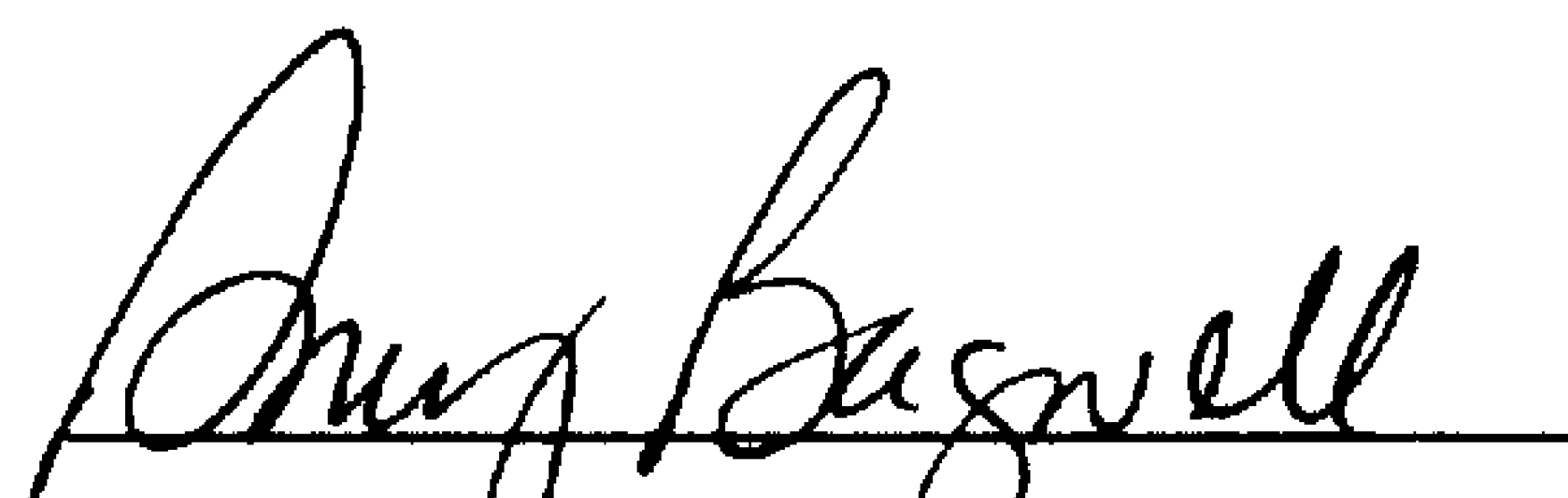
Railcar No.: PLCX 42644

Ship Date: April 6, 1992

Order No.: 0007298-002

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.04
Bulk Density, gm/cc	ABR-2A	0.547
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		11.3
Pan		3.1
Residual VCM, ppm	ABGC-26	0.111
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202142

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 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

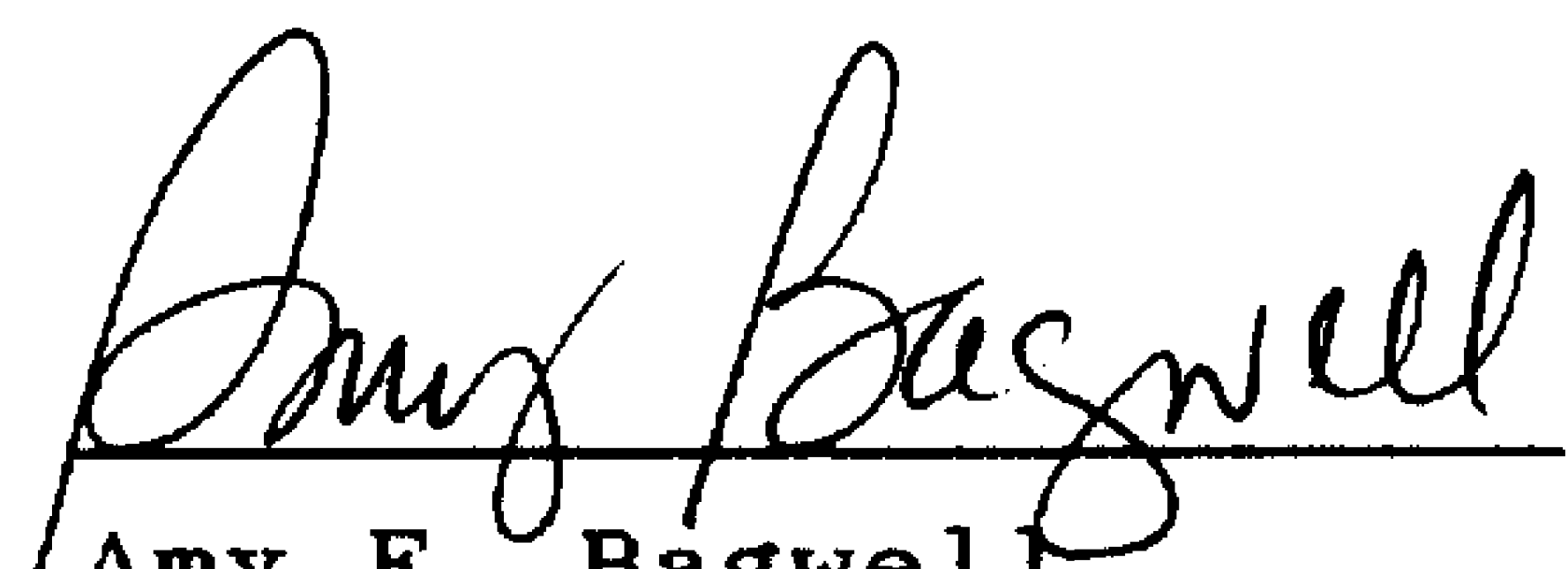
Railcar No.: ACFX 41160

Ship Date: April 8, 1992

Order No.: 0009575-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.549
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.8
Pan		3.6
Residual VCM, ppm	ABGC-26	0.023
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202143

Vista Polymers

Highway 25

Aberdeen, MS 39730

Last Cont. 5265

PVC RAILCAR ANALYSIS

Load Date: 2-16-92Product: 5265Car No.: 41160Time Logged In: 1200Logged In By: R31Silo(s): 688, 678, 686Ship Date: 4/8/92Order No: 9575-000Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.12		.14	
Contamination	BL							
	BR							
	<u>5</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>5</u>	<u>—</u>
	<u>4</u>		<u>6</u>		<u>4</u>		<u>7</u>	
Bulk Density	.546		.548		.550		.551	
BD w/antistat								
Viscosity	.661		.654		.663		.645	
RVCM	.023		.028		.015		.039	
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>0.00</u>	<u>2.10</u>	<u>8.41</u>	<u>16.12</u>	<u>13.58</u>	<u>7.88</u>	<u>1.78</u>
%	<u>0.0</u>	<u>0.0</u>	<u>4.2</u>	<u>16.8</u>	<u>32.4</u>	<u>27.2</u>	<u>15.8</u>	<u>3.6</u>

Static Flow: 0 / 8.0Avg. Microns: 127.6Color L: 99.03 a .85 b 1.70Technician: MLT E

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 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

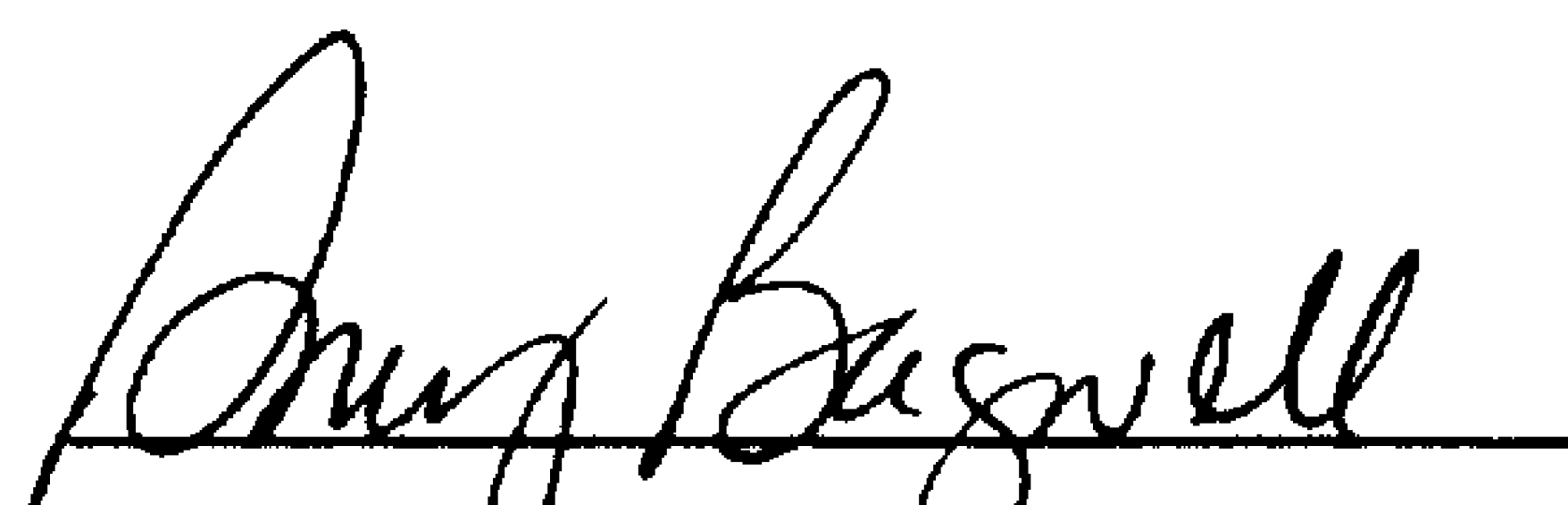
Railcar No.: PLCX 42644

Ship Date: April 6, 1992

Order No.: 0007298-002

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.04
Bulk Density, gm/cc	ABR-2A	0.547
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		11.3
Pan		3.1
Residual VCM, ppm	ABGC-26	0.111
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202145

PVC RAILCAR ANALYSIS

Load Date: 7-15-92Product: 5265Car No.: 42644Time Logged In: 0200Logged In By: MSSilo(s): 678, 686Ship Date: 4/6Order No: 7298-002Customer: Nuco

Metol (1)

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.01		.03		.04	
Contamination $\frac{BL}{BR}$	$\frac{3}{8}$	—	$\frac{2}{10}$	—	$\frac{4}{8}$	—	$\frac{3}{7}$	—
Bulk Density	.538		.556		.546		.548	
BD w/antistat								
Viscosity	.670		.663		.666		.663	
RVCM	.111		.056		.072		.010	
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>.09</u>	<u>4.35</u>	<u>11.29</u>	<u>15.78</u>	<u>11.12</u>	<u>5.65</u>	<u>1.57</u>
% P	<u>0.0</u>	<u>.2</u>	<u>8.7</u>	<u>22.6</u>	<u>31.9</u>	<u>22.2</u>	<u>11.3</u>	<u>3.1</u>

Static Flow: 0 19.4Avg. Microns: 136.7Color L: 99.45 a 0.53 b 1.61Technician: MIT & RH

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 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

VISTA

Attention: Steve Ryan

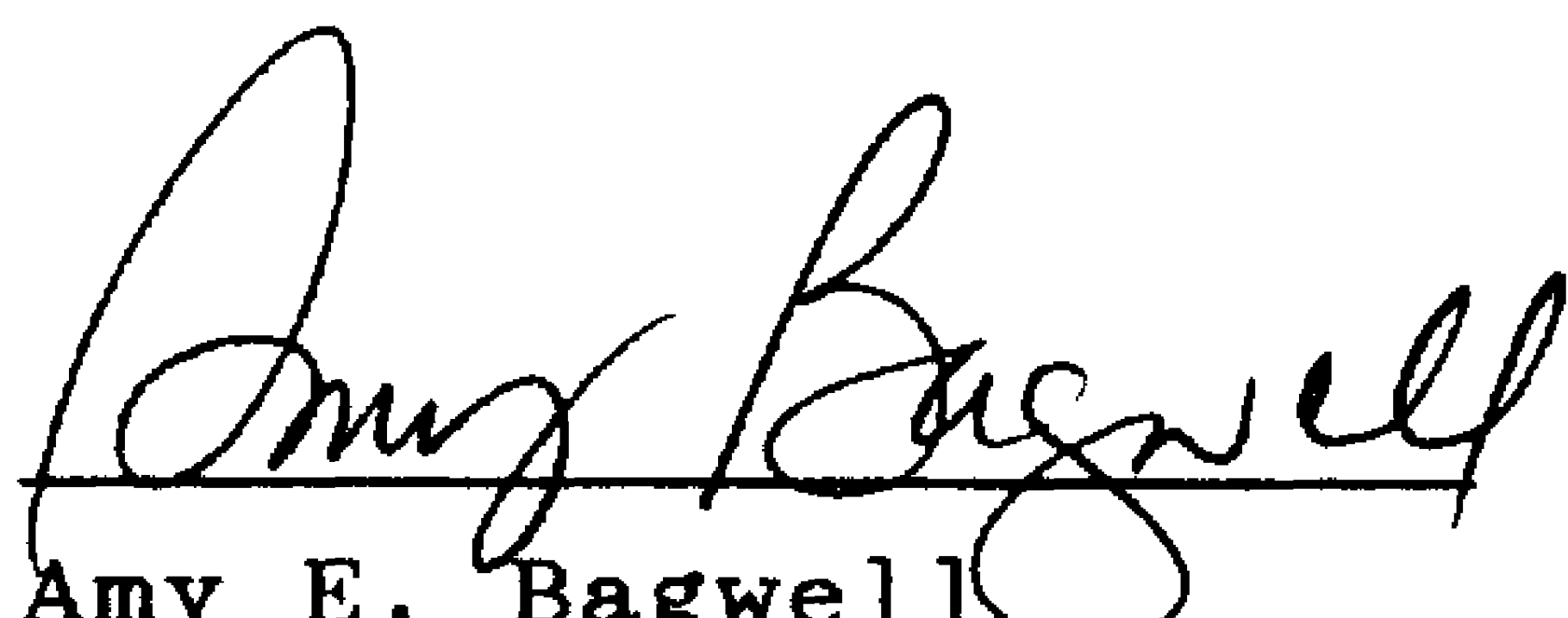
Railcar No.: UTCX 46419

Ship Date: April 6, 1992

Order No.: 0007298-001

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.02
Bulk Density, gm/cc	ABR-2A	0.544
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		13.5
Pan		3.7
Residual VCM, ppm	ABGC-26	0.064
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202147

PVC RAILCAR ANALYSIS

Load Date: 3-13-92 Product: 5265 Car No.: 46419
 Time Logged In: 0200 Logged In By: MY Silo(s): 687, 678
 Ship Date: 4/6 Order No: 7298001 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.02		.01		.01	
Contamination	BL	<u>6</u>	<u>5</u>		<u>6</u>		<u>4</u>	
	BR	<u>8</u>	<u>5</u>		<u>8</u>		<u>7</u>	
Bulk Density	.530		.539		.545		.543	
BD w/antistat								
Viscosity	.671		.680		.655		.666	
RVCM	.064		.157		.026		.221	
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>20</u>	<u>.06</u>	<u>4.21</u>	<u>10.25</u>	<u>15.11</u>	<u>11.62</u>	<u>6.76</u>	<u>1.85</u>
% P	<u>00</u>	<u>.1</u>	<u>8.4</u>	<u>20.5</u>	<u>30.6</u>	<u>23.2</u>	<u>13.5</u>	<u>3.7</u>

Static Flow: 0 110.0Avg. Microns: 133.8Color L: 99.57 a 0.50 b 1.58Technician: M.T. & R.M.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: April 3, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46442

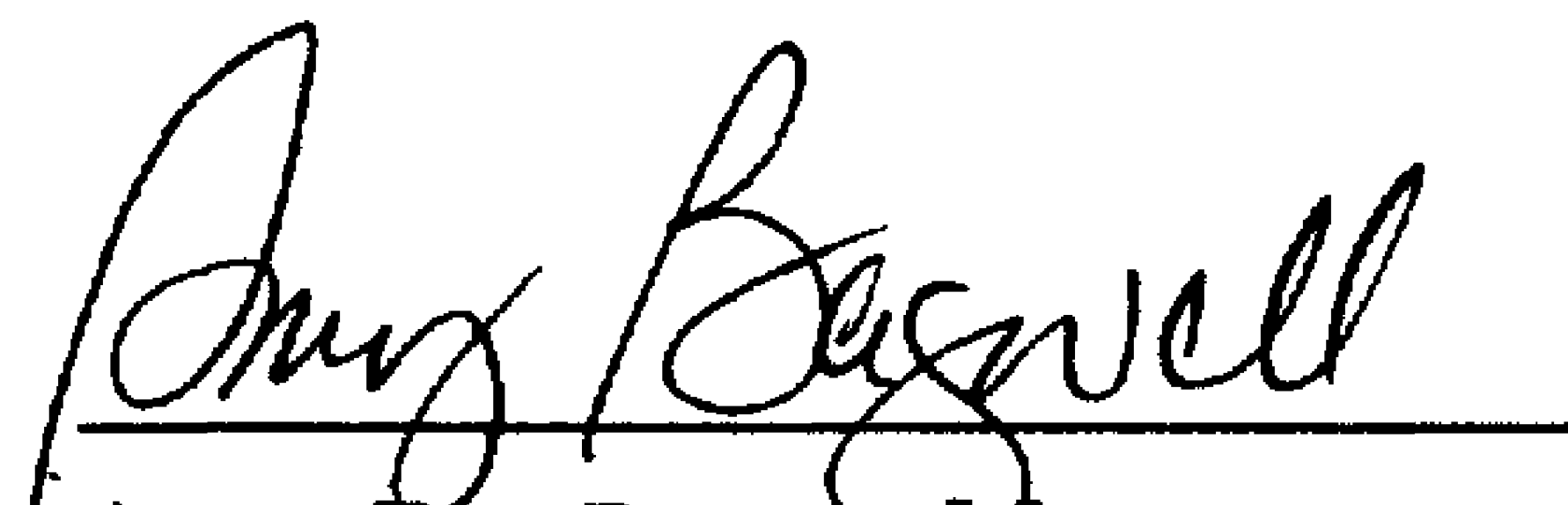
Ship Date: March 31, 1992

Order No.: 0009092-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.542
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		10.4
Pan		2.5
Residual VCM, ppm	ABGC-26	0.001
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202149

Primer-Washed
PVC RAILCAR ANALYSIS

Load Date: 2-9-92Product: 5265Car No.: 46442Time Logged In: 0300Logged In By: DteSilo(s): 680+688Ship Date: 3/31Order No: 9092-000Customer: Tubco*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.12		.14	
Contamination	BL		4		1		7	
	BR		3		4		5	
Bulk Density	.541		.543		.544		.540	
BD w/antistat								
Viscosity	.656		.654		.651		.643	
RVCM	.001		.001		.128		.001	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/4							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.02</u>	<u>2.07</u>	<u>9.88</u>	<u>18.59</u>	<u>12.93</u>	<u>5.19</u>	<u>1.23</u>
%	<u>0.0</u>	<u>0.0</u>	<u>4.1</u>	<u>19.8</u>	<u>37.3</u>	<u>25.9</u>	<u>10.4</u>	<u>2.5</u>

Static Flow: 0 / 8.2Avg. Microns: 132.2Color L: 98.23 a .70 b 1.85Technician: MD + MB

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: March 27, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46535

Ship Date: March 26, 1992

Order No.: 0007298-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.13
Bulk Density, gm/cc	ABR-2A	0.550
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		13.4
Pan		3.3
Residual VCM, ppm	ABGC-26	0.100
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H.D. Lucas
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202151

PVC RAILCAR ANALYSIS

UTLX

Load Date: 3-16-92Product: 5265Car No.: 46535Time Logged In: 13:30Logged In By: DaleSilo(s): 678+687Ship Date: 3/26/92Order No: 0007278-00Customer: NIBCO GA

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.10		.09		.12	
Contamination	BL	5	4		3		9	
	BR	8	9		8		6	
Bulk Density	.552		.555		.548		.545	
BD w/antistat								
Viscosity	.665		.668		.666		.671	
RVCM	.100		.063		.053		.126	
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>.01</u>	<u>3.48</u>	<u>10.64</u>	<u>15.60</u>	<u>12.04</u>	<u>6.68</u>	<u>1.67</u>
%	<u>0.0</u>	<u>0.0</u>	<u>7.0</u>	<u>21.3</u>	<u>30.9</u>	<u>24.1</u>	<u>13.4</u>	<u>3.3</u>

Static Flow: 0 / 8.0Avg. Microns: 133.0Color L: 98.19 a .39 b 1.22Technician: MAJ+DL

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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: March 24, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: PLCX 43053

Ship Date: March 23, 1992

Order No.: 0007295-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.01
Bulk Density, gm/cc	ABR-2A	0.539
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		13.5
Pan		3.7
Residual VCM, ppm	ABGC-26	0.050
Inherent Viscosity	ABR-10	0.67

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202153

PVC RAILCAR ANALYSIS

Load Date: 3-14-92Product: 5265Car No.: 43053Time Logged In: 1400Logged In By: MTSilo(s): 687-686Ship Date: 3/23Order No: 7295-001Customer: Nibco*Metel D*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.01		.01		.01		.01	
Contamination	BL		9		8		6	
	BR		12		30		38	
Bulk Density	.534		.534		.551	.545	.537	
BD w/antistat								
Viscosity	.666		.674		.661		.674	
RVCM	.050		.056		.034		.124	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3 12							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.0	.06	4.16	10.70	15.28	11.43	6.74	1.84
% P	0.0	.1	8.3	21.4	30.1	22.9	13.5	3.7

Static Flow: 018.9Avg. Microns: 134.1Color L: 99.54 a 0.54 b 1.49Technician: MT & RH

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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: March 18, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45921

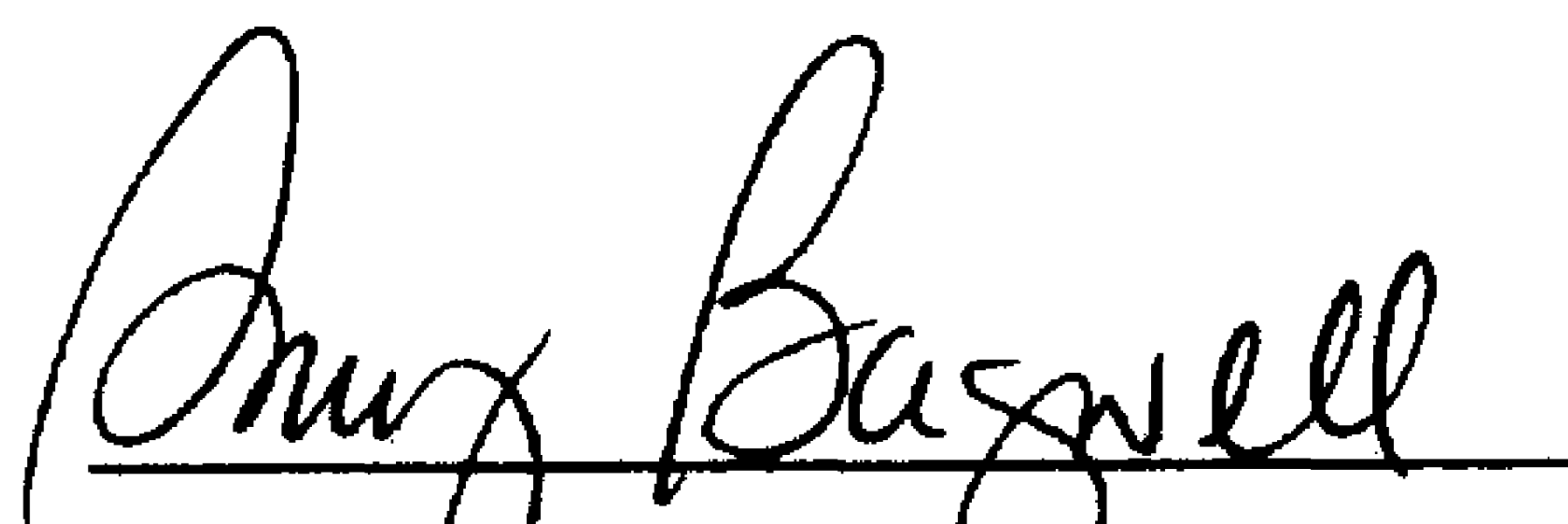
Ship Date: March 17, 1992

Order No.: 0007295-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.17
Bulk Density, gm/cc	ABR-2A	0.538
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		6.6
Pan		2.1
Residual VCM, ppm	ABGC-26	0.182
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202155

PVC RAILCAR ANALYSIS

Load Date: 3-9-92 Product: 5265 Car No.: 45921
 Time Logged In: 0300 Logged In By: Dto Silo(s): 628
 Ship Date: 3/17 Order No: 7295-000 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.11		.15		.17	
Contamination	BL							
	BR							
	<u>4</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>5</u>	<u>—</u>
	<u>8</u>		<u>7</u>		<u>8</u>		<u>9</u>	
Bulk Density	.537		.540		.538		.535	
BD w/antistat								
Viscosity	.663		.663		.665		.666	
RVCM	.182		.170		.041		.073	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>2/4</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.22</u>	<u>7.48</u>	<u>12.40</u>	<u>15.70</u>	<u>9.74</u>	<u>3.32</u>	<u>1.06</u>
%	<u>0.0</u>	<u>.9</u>	<u>15.0</u>	<u>24.8</u>	<u>31.1</u>	<u>19.5</u>	<u>6.6</u>	<u>2.1</u>

Static Flow: 0 17.2Avg. Microns: 147.3Color L: 99.03 a .44 b 1.56Technician: MD VTE

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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: March 16, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: PLWX 44567

Ship Date: March 16, 1992

Order No.: 0006964-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.05
Bulk Density, gm/cc	ABR-2A	0.547
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		7.4
Pan		2.4
Residual VCM, ppm	ABGC-26	0.100
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202157

PVC RAILCAR ANALYSIS

Load Date: 3-8-92 Product: 5265 Car No.: 44 567
 Time Logged In: 1500 Logged In By: G Silo(s): 686,687
 Ship Date: 3/16 Order No: 6964-002 Customer: Nibco

No Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.02		.05	
Contamination	BL BR	<u>15</u> <u>3</u>	—	<u>13</u> <u>2</u>	—	<u>8</u> <u>2</u>	<u>24</u> <u>5</u>	—
Bulk Density		.546		.546		.551		.546
BD w/antistat								
Viscosity		.662		.650		.657		.663
RVCM		.100		.051		.107		.117
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>0.21</u>	<u>6.92</u>	<u>12.00</u>	<u>15.93</u>	<u>10.00</u>	<u>3.70</u>	<u>1.22</u>
%	<u>0.0</u>	<u>0.4</u>	<u>13.8</u>	<u>24.0</u>	<u>32.0</u>	<u>20.0</u>	<u>7.4</u>	<u>2.4</u>

Static Flow: 0, 2.2Avg. Microns: 144.4Color L: 99.20 a 0.54 b 1.46Technician: J.T. & M.B.

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A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: March 12, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: GACX 73409

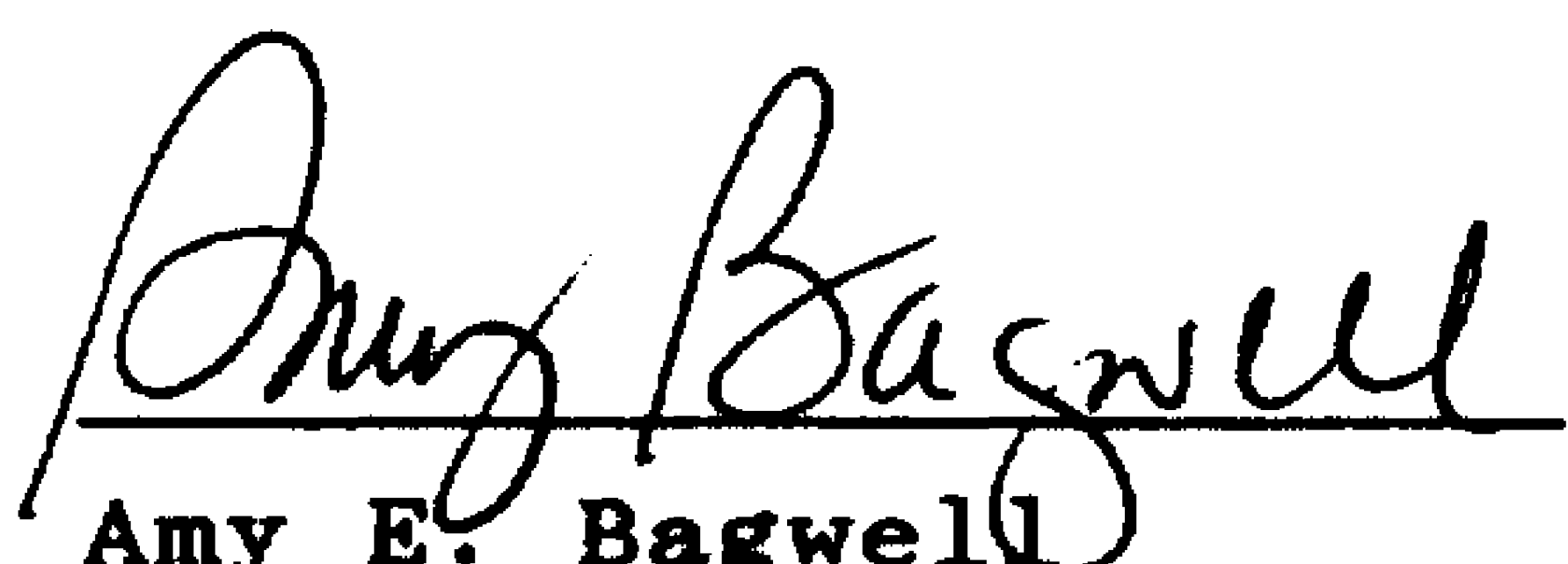
Ship Date: March 9, 1992

Order No.: 0005590-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.05
Bulk Density, gm/cc	ABR-2A	0.547
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		12.2
Pan		2.7
Residual VCM, ppm	ABGC-26	0.081
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202159

PVC RAILCAR ANALYSIS

Load Date: 3-6-92Product: 5265Car No.: 73409Time Logged In: 0200Logged In By: D.T.Silo(s): 678+686Ship Date: 3/9/92Order No: 0005590-005Customer: NICONo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.02		.05	
Contamination	BL							
	BR							
Bulk Density	.548		.543		.550		.546	
BD w/antistat								
Viscosity	.659		.665		.657		.666	
RVCM	.081		.093		.040		.041	
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>0.18</u>	<u>5.90</u>	<u>10.51</u>	<u>14.51</u>	<u>11.31</u>	<u>6.10</u>	<u>1.35</u>
%	<u>0.00</u>	<u>0.4</u>	<u>11.8</u>	<u>21.0</u>	<u>29.3</u>	<u>22.6</u>	<u>12.2</u>	<u>2.7</u>

Static Flow: 0.87Avg. Microns: 138.9Color L: 99.35 a 0.49 b 1.43Technician: D.T. + HDL

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A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: March 10, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46511

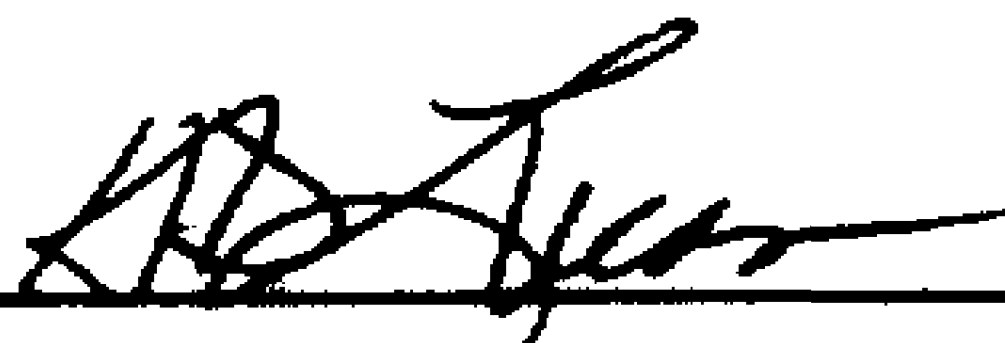
Ship Date: March 9, 1992

Order No.: 0006964-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.11
Bulk Density, gm/cc	ABR-2A	0.545
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		13.0
Pan		2.9
Residual VCM, ppm	ABGC-26	0.021
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H.D. Lucas
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202161

PVC RAILCAR ANALYSIS

Load Date: 2-21-92 Product: 5265 Car No.: 46511
 Time Logged In: 1800 Logged In By: 6 Silo(s): 678, 687
 Ship Date: 3/9/92 Order No: 000 6964-001 Customer: Nibco GA

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.07		.09		.10		.11	
Contamination	BL	<u>4</u>	—	<u>5</u>	—	<u>6</u>	—	<u>8</u>
	BR	<u>8</u>	—	<u>7</u>	—	<u>8</u>	—	<u>7</u>
Bulk Density	.546		.550		.543		.542	
BD w/antistat								
Viscosity	.662		.659		.662		.661	
RVCM	.021		.031		.063		.004	
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>0.03</u>	<u>2.61</u>	<u>9.02</u>	<u>16.44</u>	<u>14.04</u>	<u>6.50</u>	<u>1.45</u>
%	<u>0.0</u>	<u>0.1</u>	<u>5.2</u>	<u>18.0</u>	<u>32.7</u>	<u>28.1</u>	<u>13.0</u>	<u>2.9</u>

Static Flow: 0 / 8.3Avg. Microns: 130.7Color L: 99.52 a .62 b 1.53Technician: MJ + DL

Vista Polymers
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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: March 9, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45811

Ship Date: March 6, 1992

Order No.: 0007295-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.14
Bulk Density, gm/cc	ABR-2A	0.543
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		8.6
Pan		1.6
Residual VCM, ppm	ABGC-26	0.028
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



H.D. Lucas
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202163

PVC RAILCAR ANALYSIS

VIPX

Load Date: 2-18-92Product: 5265Car No.: 45811Time Logged In: 1630Logged In By: DTSilo(s): 678, 686, 688Ship Date: 3/6/92Order No: 0007295-002Customer: Nibco

GA.

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.14		.11		.13		.12	
Contamination	BL 4 BR 8	—	5 11	—	3 9	—	4 10	—
Bulk Density	.543		.541		.546		.542	
BD w/antistat								
Viscosity	.661		.658		.656		.656	
RVCM	.028		.007		.005		.005	
Tappi Test Contamination Composite	.06 or less 4/8		.07 ----- .15		.20 ----- .60			

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.05</u>	<u>4.37</u>	<u>11.35</u>	<u>17.23</u>	<u>11.76</u>	<u>4.30</u>	<u>0.81</u>
%	<u>0.0</u>	<u>.1</u>	<u>8.7</u>	<u>22.7</u>	<u>34.8</u>	<u>23.5</u>	<u>8.6</u>	<u>1.6</u>

Static Flow: 0 / 1.3Avg. Microns: 139.0Color L: 99.11 a .72 b 1.69Technician: MD + RH

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: March 9, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45812

Ship Date: March 6, 1992

Order No.: 0007295-003

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.05
Bulk Density, gm/cc	ABR-2A	0.543
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		9.6
Pan		1.9
Residual VCM, ppm	ABGC-26	0.072
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H.D. Lucas
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202165

PVC RAILCAR ANALYSIS

Load Date: 2-18-92Product: 5265Car No.: 45812Time Logged In: 1630Logged In By: D.T.Silo(s): 678, 686, 688Ship Date: 3/6/92Order No: 0007295-003Customer: Libco

GA

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.05		.04		.03		.04	
Contamination	BL		5		7		10	
	BR		10		12		13	
Bulk Density	.541		.532		.543		.556	
BD w/antistat								
Viscosity	.661		.654		.655		.654	
RVCM	.072		.054		.005		.005	
Tappi Test Contamination Composite								
.06 or less			.07 ----- .15			.20 ----- .60		
9/11								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.04</u>	<u>3.60</u>	<u>10.82</u>	<u>17.48</u>	<u>12.08</u>	<u>4.81</u>	<u>.94</u>
%	<u>0.0</u>	<u>.1</u>	<u>7.2</u>	<u>21.6</u>	<u>35.4</u>	<u>24.2</u>	<u>9.6</u>	<u>1.9</u>

Static Flow: 0 / 8.0Avg. Microns: 136.6Color L: 99.15 a .72 b 1.62Technician: MM + RH

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A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: March 5, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46416

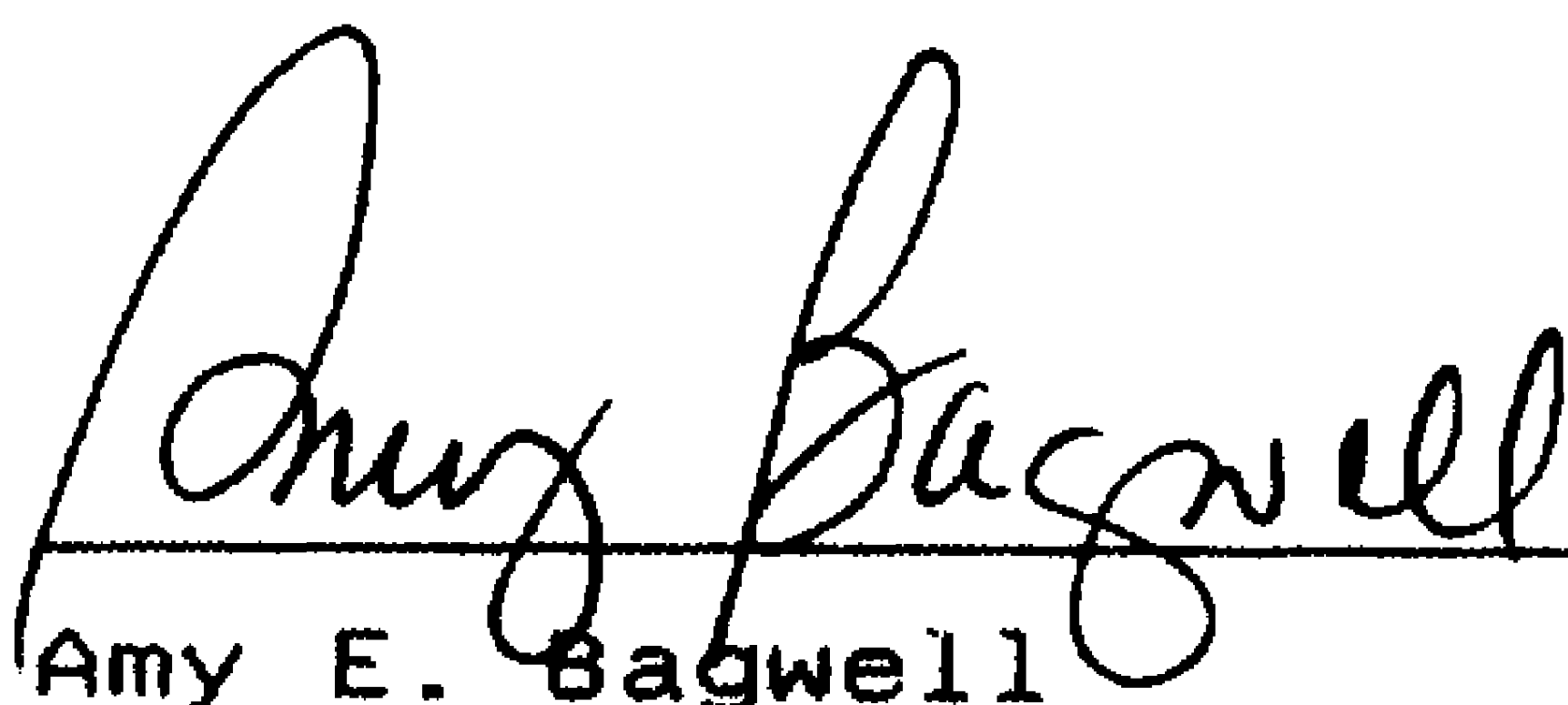
Ship Date: March 2, 1992

Order No.: 0006964-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.18
Bulk Density, gm/cc	ABR-2A	0.542
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		8.5
Pan		2.0
Residual VCM, ppm	ABGC-26	0.040
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202167

PVC RAILCAR ANALYSIS

Load Date: 2-16-92Product: 5265Car No.: 46416Time Logged In: 0200Logged In By: MMSilo(s): 686, 688Ship Date: 3/2/92Order No: 6964-000Customer: NibcoNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.18		.05		.05		.02	
Contamination	BL	8	7		8		7	
	BR	8	6		10		8	
Bulk Density	.545		.552		.548		.523	
BD w/antistat								
Viscosity	.660		.652		.658		.649	
RVCM	.040		.060		.057		.006	
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>0.13</u>	<u>4.36</u>	<u>10.90</u>	<u>17.57</u>	<u>11.90</u>	<u>4.23</u>	<u>1.00</u>
%	<u>0.0</u>	<u>0.3</u>	<u>8.7</u>	<u>21.8</u>	<u>34.9</u>	<u>23.8</u>	<u>8.5</u>	<u>2.0</u>

Static Flow: 0, 8.8Avg. Microns: 138.7Color L: 99.44 a 0.78 b 1.60Technician: P.T. HILL

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: 2/28/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 2/28/92

Product: 5305

VISTA

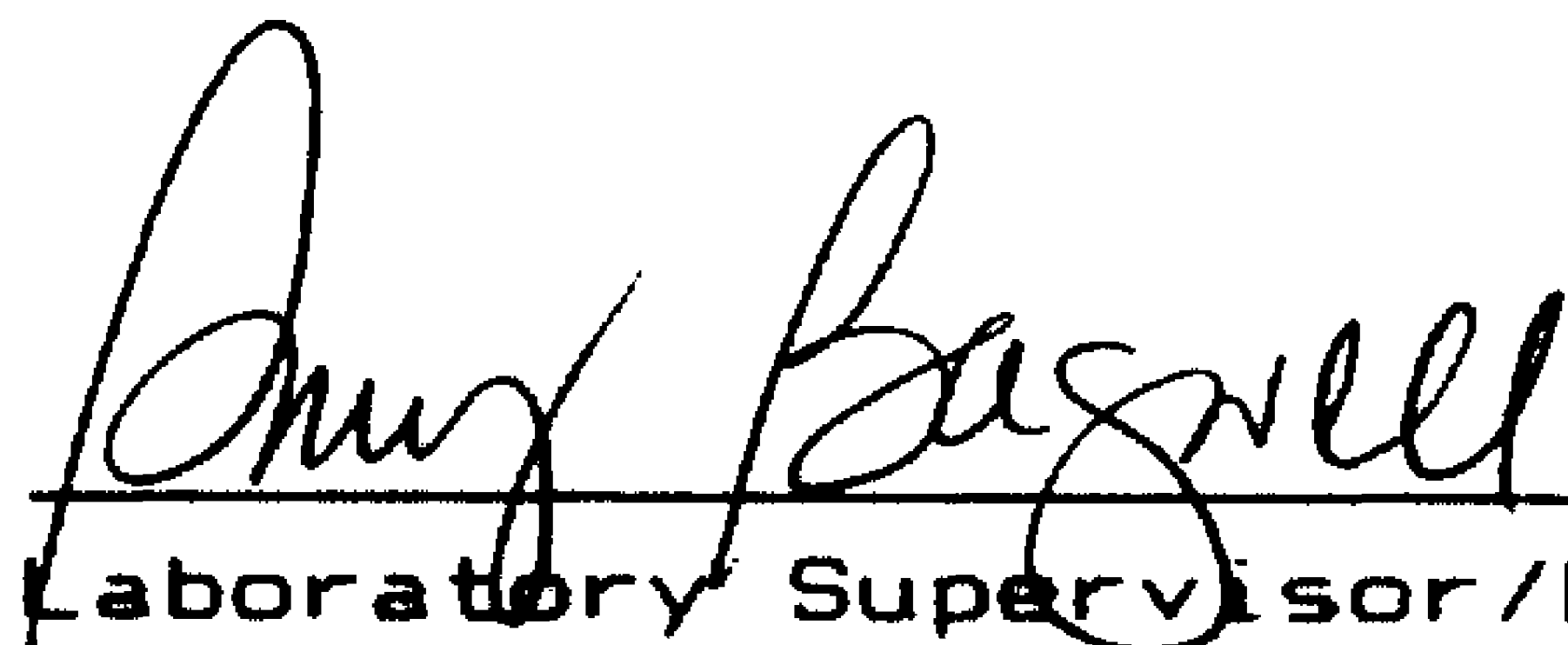
Order No.: 0006109-008

Cust. PO No.: 31-28391

Trailer No.: T-652

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	<u>.520</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.9</u>
Pan		<u>2.1</u>
Residual VCM, ppm	ABGC-26	<u>.080</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202169

PVC BULK TRAILER ANALYSIS

A

Date 2-28-92 Product 5305 Trailer Number T-652
 Customer Nibco Silo 683-684 Time 0835
 Technician M.T. Order No. 0006109-008

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.	0.2	1.	5	1.	1.	1.	L = 99.50	0 / 8.2	
	2.		2.	8	2.	2.	2.	A = 0.62		
								B = 1.71		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.0	0.0	3.98	13.29	18.07	9.92	3.47	1.06	
% on Mesh	0.0	0.0	8.0	26.6	36.6	19.8	6.9	2.1	

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

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

Remarks _____

Vista Polymers
A Division of
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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: February 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

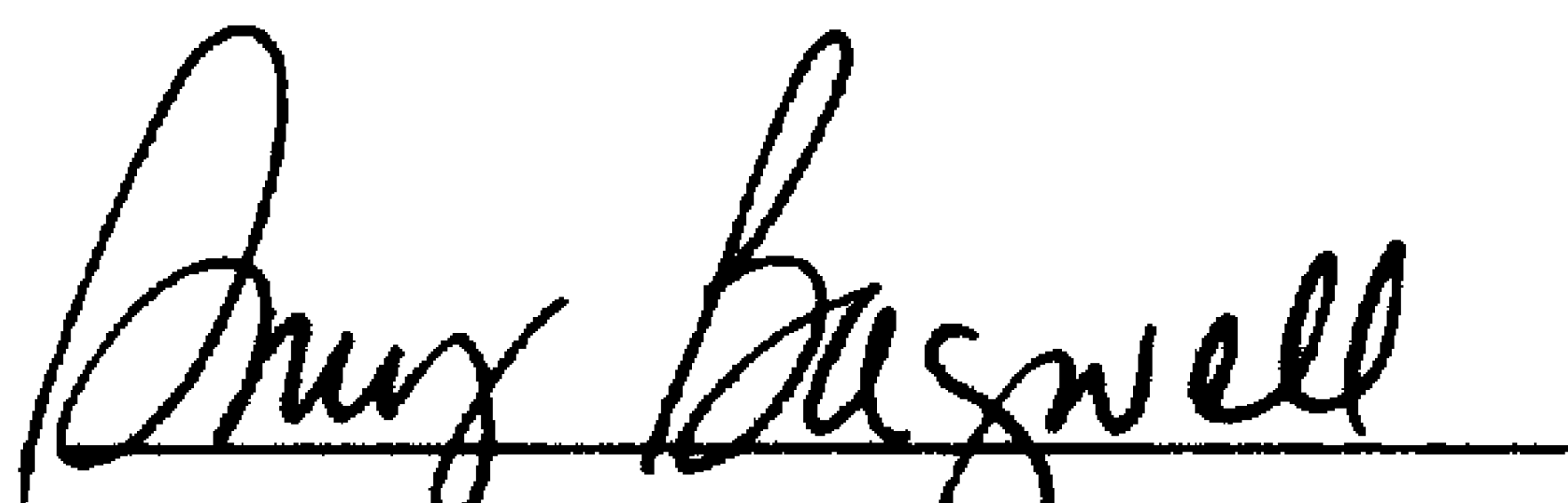
Railcar No.: GACX 73379

Ship Date: February 17, 1992

Order No.: 0006963-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.17</u>
Bulk Density, gm/cc	ABR-2A	<u>.559</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>12.1</u>
Pan		<u>2.3</u>
Residual VCM, ppm	ABGC-26	<u>.036</u>
Inherent Viscosity	ABR-10	<u>.66</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202171

PVC RAILCAR ANALYSIS

Load Date: 2-15-92Product: 5265Car No.: 73379Time Logged In: 2400Logged In By: MMSilo(s): 678, 686Ship Date: 2/19/92Order No: 0006963-000Customer: TD Tubco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.10		.14		.17	
Contamination	BL		5		4		4	
	BR		9		8		9	
Bulk Density	.596		.510 2/16/92 .547		.548		.546	
BD w/antistat								
Viscosity	.673		.659		.658		.656	
RVCM	.030		.031		.036		.012	
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>.06</u>	<u>3.19</u>	<u>9.20</u>	<u>17.20</u>	<u>13.07</u>	<u>6.06</u>	<u>1.17</u>
%	<u>0.0</u>	<u>.1</u>	<u>6.4</u>	<u>18.4</u>	<u>34.6</u>	<u>26.1</u>	<u>12.1</u>	<u>2.3</u>

Static Flow: 0 / 8.1Avg. Microns: 133.2Color L: 99.26 a .75 b 1.56Technician: MMYTE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: February 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

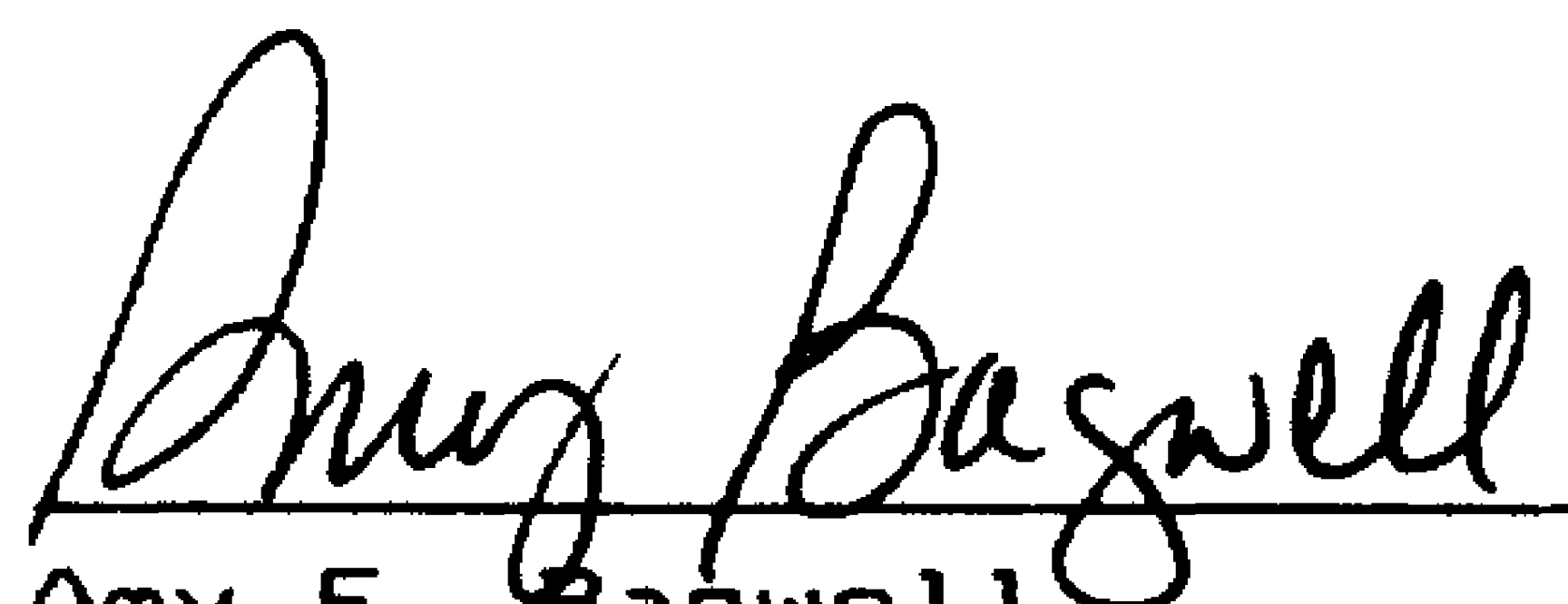
Railcar No.: PTLX 42336

Ship Date: February 17, 1992

Order No.: 0005590-004

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Bulk Density, gm/cc	ABR-2A	<u>.539</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>11.2</u>
Pan		<u>2.4</u>
Residual VCM, ppm	ABGC-26	<u>104</u>
Inherent Viscosity	ABR-10	<u>.65</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202173

Aberdeen, MS 39730 A

Load Date: 2-10-92 Product: 5265 Car No.: 42336
Time Logged In: 1500 Logged In By: MS Silo(s): 678, 680, 686
Ship Date: 2/17/92 Order No: 0005590-004 Customer: Alber ~~del~~ Nibco

NO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.02		.02		.05		.02	
Contamination	BL 5 9	—	9 5	—	6 8	—	9 9	—
Bulk Density	.551		.551		.526		.526	
BD w/antistat								
Viscosity	.646		.658		.645		.643	
RVCM	.026		.104		.001		.001	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15			.20 ----- .60		

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.03</u>	<u>2.47</u>	<u>9.71</u>	<u>17.78</u>	<u>13.45</u>	<u>5.60</u>	<u>1.21</u>
%	<u>0.0</u>	<u>0.1</u>	<u>4.9</u>	<u>19.4</u>	<u>35.1</u>	<u>26.9</u>	<u>11.2</u>	<u>2.4</u>

Static Flow: 0 / 10.3

Avg. Microns: 132.4

Color L: 9917 a 0.70 b 1.77

Technician: D.T. FHPL

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: February 19, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: UTCX 46423

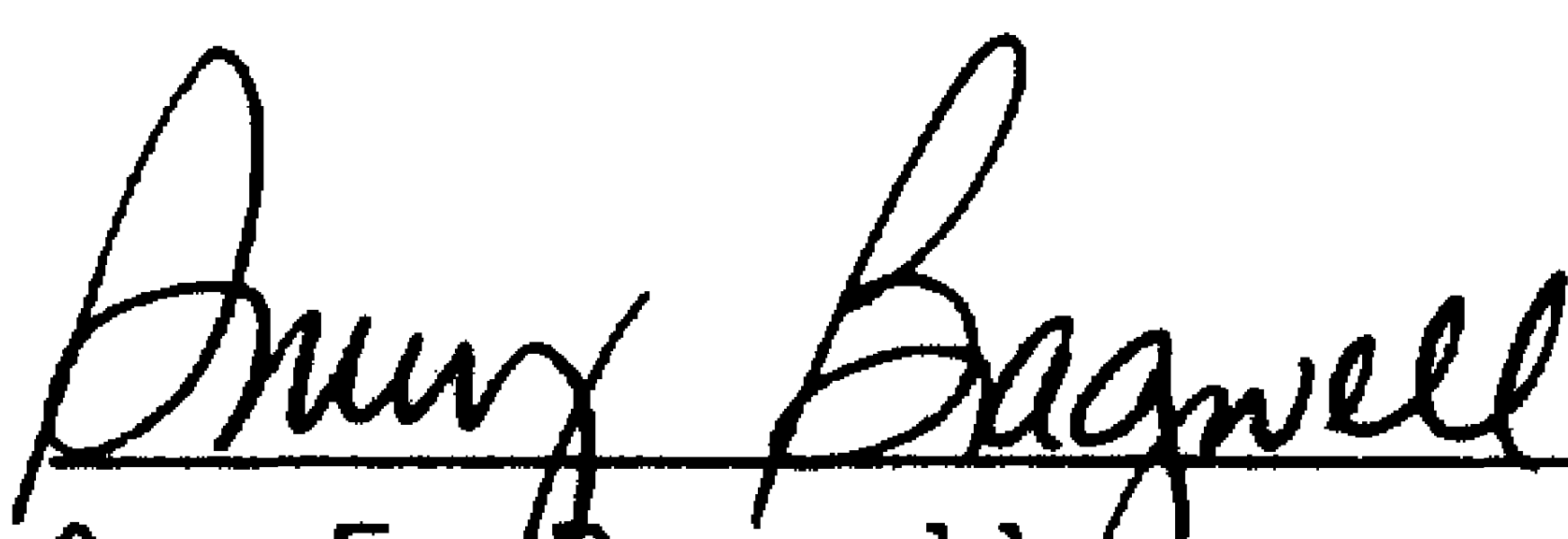
Ship Date: February 13, 1992

Order No.: 0007115-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.16</u>
Bulk Density, gm/cc	ABR-2A	<u>.534</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>7.7</u>
Pan		<u>1.9</u>
Residual VCM, ppm	ABGC-26	<u>.874</u>
Inherent Viscosity	ABR-10	<u>.68</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202175

Washed

PVC RAILCAR ANALYSIS

Load Date: 2-6-92Product: 5265Car No.: 46423Time Logged In: 1800Logged In By: 6Silo(s): 687, 688, 688Ship Date: 2/13/92Order No: 0007115-000Customer: Nibco*no metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.10		.16		.14		.20	
Contamination	BL		4		3		5	
	BR		8		6		11	
Bulk Density	.535		.533		.534		.534	
BD w/antistat								
Viscosity	.681		.683		.682		.678	
RVCM	.874		.732		.297		.769	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/9							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.0</u>	<u>3.99</u>	<u>11.95</u>	<u>18.23</u>	<u>10.98</u>	<u>3.83</u>	<u>.96</u>
%	<u>0.0</u>	<u>0.0</u>	<u>8.0</u>	<u>23.9</u>	<u>36.5</u>	<u>22.0</u>	<u>7.7</u>	<u>1.9</u>

Static Flow: 0, 9.0Avg. Microns: 139.0Color L: 97.96 a 1.00 b 1.77Technician: Gx ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

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CERTIFICATE OF ANALYSIS

VISTA

Date: February 14, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

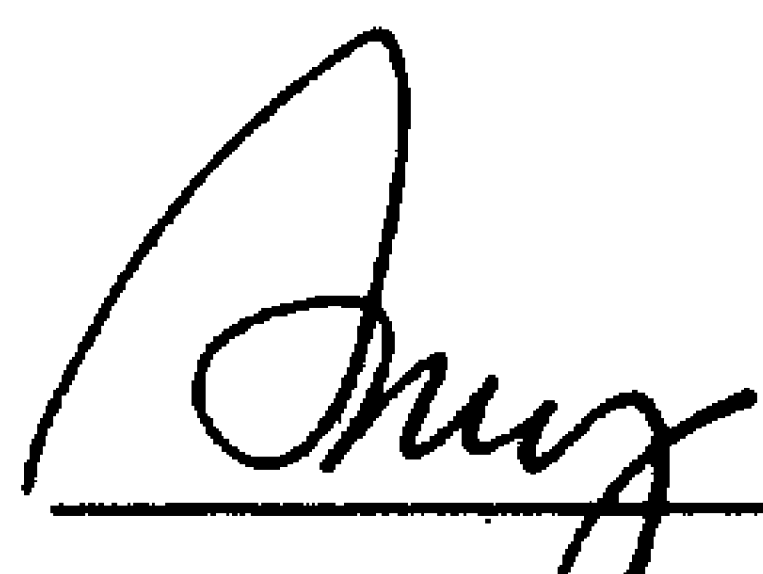
Railcar No.: GACX 73409

Ship Date: February 11, 1992

Order No.: 0005590-002

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.11
Bulk Density, gm/cc	ABR-2A	0.547
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		11.5
Pan		2.1
Residual VCM, ppm	ABGC-26	0.001
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202177

Viata Polymers

Highway 25

Aberdeen, MS 39730

A

Last Cont. 5265

PVC RAILCAR ANALYSIS

Load Date: 2-7-92Product: 5265Car No.: 73409Time Logged In: 0300Logged In By: D.T.Silo(s): 678+688Ship Date: 2/11/92Order No: 0005590-002Customer: Thru*No Metal*

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.06		.08		.09		.11	
Contamination	BL	2	4		3		4	
	BR	9	11		8		10	
Bulk Density	.548		.551		.545		.543	
BD w/antistat								
Viscosity	.659		.661		.684		.672	
RVCM	.001		.001		.001		.001	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/9							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.05</u>	<u>3.00</u>	<u>10.32</u>	<u>17.14</u>	<u>12.68</u>	<u>5.75</u>	<u>1.03</u>
%	<u>0.0</u>	<u>.1</u>	<u>6.0</u>	<u>20.6</u>	<u>34.3</u>	<u>25.4</u>	<u>11.5</u>	<u>2.1</u>

Static Flow: 0 17.8Avg. Microns: 134.1Color L: 98.41 a 0.76 b 1.89Technician: Co + E

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: February 14, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

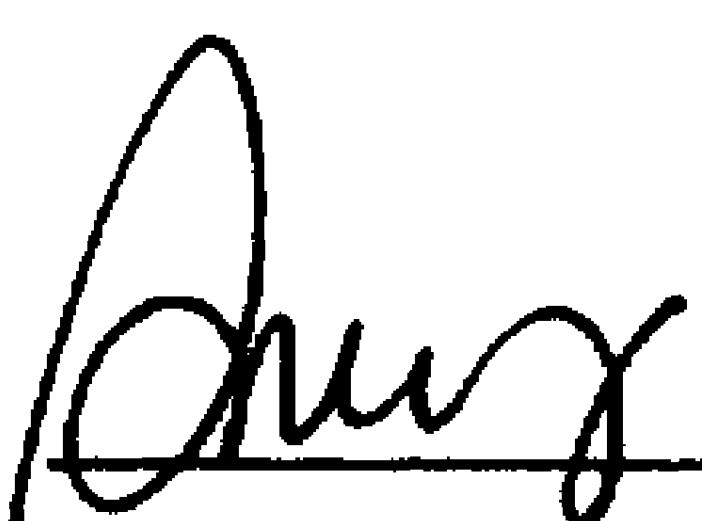
Railcar No.: VIPX 45921

Ship Date: February 10, 1992

Order No.: 0005590-003

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.23
Bulk Density, gm/cc	ABR-2A	0.540
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		11.7
Pan		2.1
Residual VCM, ppm	ABGC-26	0.033
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202179

PVC RAILCAR ANALYSIS

Load Date: 1-15-92 Product: 5265 Car No.: 45921
 Time Logged In: 0600 Logged In By: C Silo(s): 688, 688, 687
 Ship Date: 2/10/92 Order No: 0005590-003 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.23		.11		.17		.18	
Contamination	BL							
	BR							
	<u>3</u>	<u>—</u>	<u>4</u>	<u>—</u>	<u>6</u>	<u>—</u>	<u>5</u>	<u>—</u>
	<u>7</u>		<u>5</u>		<u>9</u>		<u>8</u>	
Bulk Density	.540		.541		.539		.542	
BD w/antistat								
Viscosity	.656		.655		.652		.654	
RVCM	.033		.025		.015		.014	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>2/4</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.00</u>	<u>2.01</u>	<u>8.87</u>	<u>18.07</u>	<u>13.84</u>	<u>5.87</u>	<u>1.07</u>
%	<u>0.0</u>	<u>0.0</u>	<u>4.0</u>	<u>17.7</u>	<u>36.8</u>	<u>27.7</u>	<u>11.7</u>	<u>2.1</u>

Static Flow: 0 17.8Avg. Microns: 131.0Color L: 98.52 a .77 b 1.76Technician: MATE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A)

CERTIFICATE OF ANALYSIS

Date: February 12, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: PLCX 43944

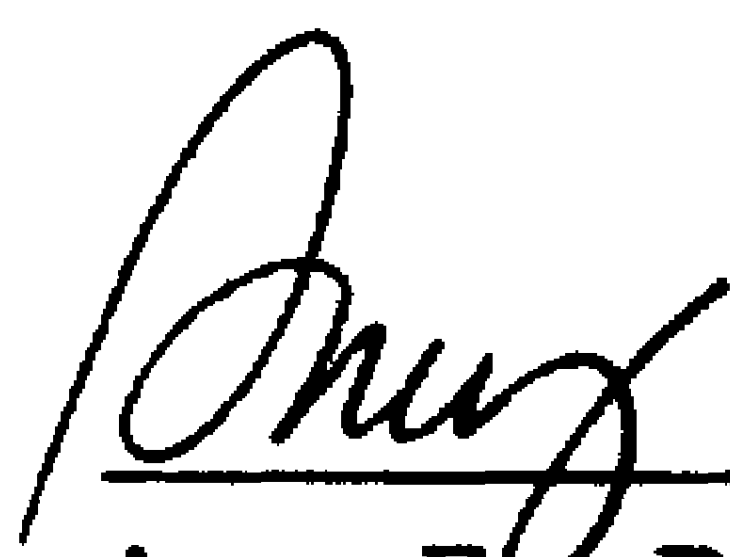
Ship Date: February 7, 1992

Order No.: 0006903-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.538
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		10.0
Pan		2.2
Residual VCM, ppm	ABGC-26	0.055
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202181

PVC RAILCAR ANALYSIS

Load Date: 1-15-92 Product: 5265 Car No.: 43944
 Time Logged In: 0600 Logged In By: LO Silo(s): 679, 688, 687
 Ship Date: 2/7/92 Order No: 0006903-000 Customer: Nibco/Amur

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.11		.13		.15		.15	
Contamination	BL							
	BR							
	<u>5</u>	<u>—</u>	<u>6</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>4</u>	<u>—</u>
	<u>12</u>		<u>9</u>		<u>10</u>		<u>8</u>	
Bulk Density	.536		.539		.540		.538	
BD w/antistat								
Viscosity	.653		.654		.654		.654	
RVCM	.055		.011		.011		.017	
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>0.00</u>	<u>3.12</u>	<u>11.04</u>	<u>17.39</u>	<u>12.40</u>	<u>5.00</u>	<u>1.09</u>
%	<u>0.0</u>	<u>0.0</u>	<u>6.2</u>	<u>22.1</u>	<u>34.7</u>	<u>24.8</u>	<u>10.0</u>	<u>2.2</u>

Static Flow: 0.18.0Avg. Microns: 135.2Color L: 78.63 a .71 b 1.69Technician: MA + TE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: February 6, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45871

Ship Date: February 3, 1992

Order No.: 0005590-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.23
Bulk Density, gm/cc	ABR-2A	0.525
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		8.8
Pan		2.1
Residual VCM, ppm	ABGC-26	0.141
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202183

PVC RAILCAR ANALYSIS

Load Date: 1-4-92 Product: 5255 Car No.: 45871Time Logged In: 1700 Logged In By: M.T.Ship Date: 2/3/92 Silo(s): 686-678 Customer: Nibco
0005590-000no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	████		████	<u>.22</u>	<u>.23</u>		<u>.21</u>	
Contamination	<u>13</u> <u>8</u>	—	<u>5</u> <u>4</u>	—	<u>20</u> <u>11</u>	—	<u>6</u> <u>3</u>	—
Bulk Density	<u>.507</u>		<u>.507</u>		<u>.538</u>		<u>.546</u>	
BD w/antistat								
Viscosity	<u>.650</u>		<u>.653</u>		<u>.657</u>		<u>.668</u>	
RVCM	<u>.141</u>		<u>.116</u>		<u>.008</u>		<u>.054</u>	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>4/4</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.00</u>	<u>5.10</u>	<u>11.10</u>	<u>15.95</u>	<u>12.23</u>	<u>4.38</u>	<u>1.03</u>
%	<u>0.0</u>	<u>0.0</u>	<u>10.2</u>	<u>22.2</u>	<u>32.2</u>	<u>24.5</u>	<u>8.8</u>	<u>2.1</u>

Static Flow: 0 / 10.2Avg. Microns: 139.0Color L: 99.61 a .60 b 1.89Technician: M. J. M.B.

VAB.0001202184

moist & Cont
only

Vista Polymers

Highway 25

Abbees, ME 39730

A

PVC RAILCAR ANALYSIS

Load Date: 1-9-92 Product: 5265 Car No.: 45871

Time Logged In: _____ Logged In By: _____

Ship Date: _____ Silo(s): _____ Customer: _____

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.23		.74					
Contamination	$\frac{3}{13}$	—	$\frac{4}{20}$	—	—	—	—	—
Bulk Density								
BD w/antistat								
Viscosity								
RVCM								

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60

Screen Analysis

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

Static Flow: _____ Avg. Microns: _____

Color L: _____ a _____ b _____

Technician: _____

VAB.0001202185

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: February 6, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: PLCX 42984

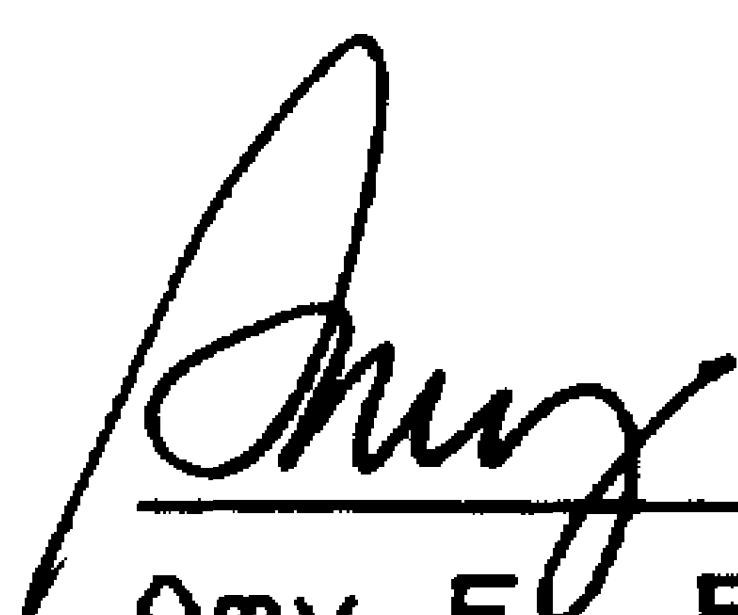
Ship Date: February 3, 1992

Order No.: 0005590-001

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.28
Bulk Density, gm/cc	ABR-2A	0.538
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		11.6
Pan		2.3
Residual VCM, ppm	ABGC-26	0.004
Inherent Viscosity	ABR-10	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202186

PVC RAILCAR ANALYSIS

Load Date: 1/3/92 Product: 5265 Car No.: 42984
 Time Logged In: 0200 Logged In By: PT. Silo(s): 686
 Ship Date: 2/3/92 Order No: 0005590-001 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom	<i>clean out</i>	Bottom	
Moisture %	.22		.23		.70		.18	
Contamination	BL							
	BR							
	<u>16</u>		<u>10</u>		<u>11</u>	<u>.28</u>	<u>4</u>	
	<u>10</u>		<u>11</u>		<u>12</u>	<u>.538</u>	<u>9</u>	
Bulk Density	.537		.533		.495	.496	.543	
BD w/antistat								
Viscosity	.662		.656		.657		.660	
RVCM	.004		.014		.030		.031	
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	<u>0.00</u>	<u>.06</u>	<u>3.48</u>	<u>9.77</u>	<u>16.14</u>	<u>13.37</u>	<u>5.80</u>	<u>1.16</u>
%	<u>0.0</u>	<u>.1</u>	<u>7.0</u>	<u>19.5</u>	<u>32.8</u>	<u>26.7</u>	<u>11.6</u>	<u>2.3</u>

Static Flow: 0 17.4Avg. Microns: 134.0Color L: 98.95 a .71 b 1.78Technician: MJ+TE

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: January 29, 1992

Customer: Nibco, Inc.
1900 Old Union Point Road
Greensboro, GA 30642

Product: 5265

Attention: Steve Ryan

Railcar No.: VIPX 45805

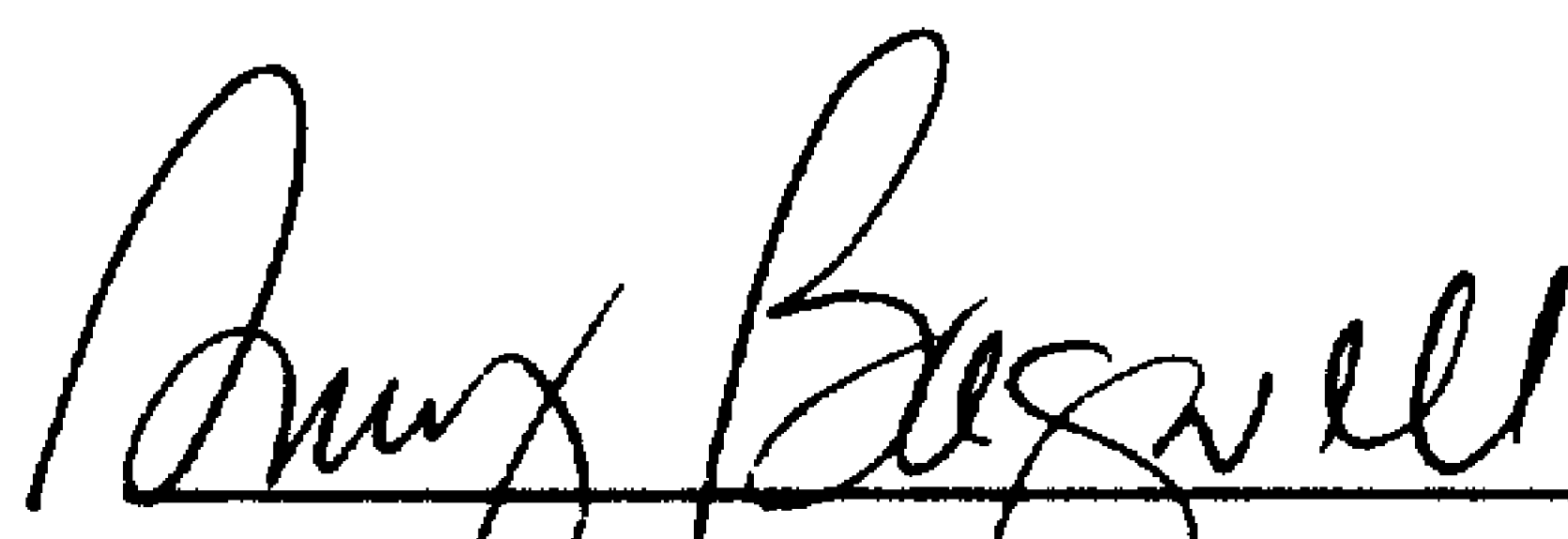
Ship Date: January 27, 1992

Order No.: 0005589-000

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.21
Bulk Density, gm/cc	ABR-2A	0.539
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		13.8
Pan		2.6
Residual VCM, ppm	ABGC-26	0.016
Inherent Viscosity	ABR-10	0.65

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor/Lead

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202188

PVC RAILCAR ANALYSIS

Load Date: 1-13-92Product: 5265Car No.: 45805Time Logged In: 1430Logged In By: MASilo(s): 680, 688, 687Ship Date: 1/27/92Order No: 0005589-000 Customer: NibcoNo Metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.03		.05		.05		.21	
Contamination	BL							
	BR							
	<u>6</u>	—	<u>7</u>	—	<u>8</u>	—	<u>5</u>	—
	<u>6</u>		<u>4</u>		<u>9</u>		<u>9</u>	
Bulk Density	.541		.544		.546		.526	
BD w/antistat								
Viscosity	.652		.660		.658		.659	
RVCM	.016		.020		.011		.008	
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>0.11</u>	<u>3.60</u>	<u>9.00</u>	<u>15.55</u>	<u>13.65</u>	<u>6.88</u>	<u>1.31</u>
%	<u>0.00</u>	<u>0.2</u>	<u>7.2</u>	<u>18.0</u>	<u>30.9</u>	<u>27.3</u>	<u>13.8</u>	<u>2.6</u>

Static Flow: 0, 7.7Avg. Microns: 132.5Color L: 99.28 a 0.66 b 1.81Technician: D. J. 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

CERTIFICATE OF ANALYSIS

Date: January 13, 1992

Customer: Nibco, Inc.
Route 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

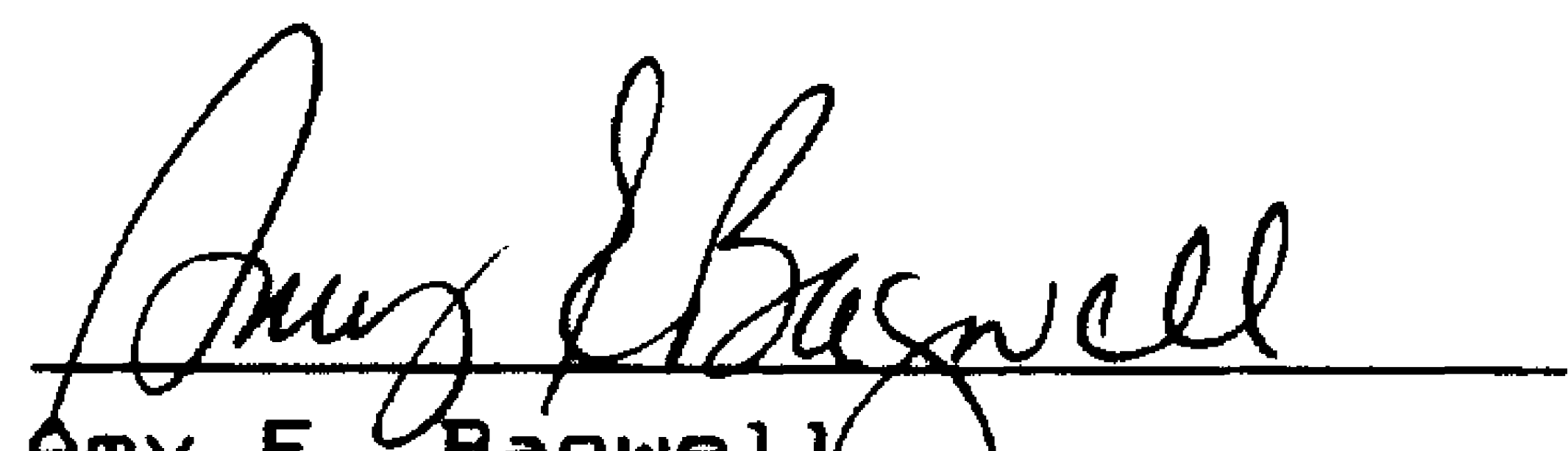
Railcar No.: VIPX 45812

Ship Date: January 11, 1992

Order No.: 0004556-005

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.15
Bulk Density, gm/cc	ABR-2A	0.531
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		10.4
Pan		1.9
Residual VCM, ppm	ABGC-26	0.001
Inherent Viscosity	ABR-10	0.66


Amy E. Bagwell
Laboratory Supervisor/Lead

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202190

PVC RAILCAR ANALYSIS

Load Date: 12-15-91

Product:

5255

Car No.: 45812Time Logged In: 0100Logged In By: D.T.Ship Date: 1/11/92Silo(s): 678, 687, 686/88Customer: Nibco0004556-005no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.13		0.13	<u>RE-sample</u> 1-10-92 .14	.15		.12	
Contamination	<u>3</u> 4	—	<u>5</u> 6	<u>CO</u>	<u>3</u> 2	—	<u>4</u> 7	—
Bulk Density	.533		.531		.532		.530	
BD w/antistat								
Viscosity	.655		.654		.659		.657	
RVCM	.001		.008		.001		.001	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>2/3</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.16</u>	<u>4.70</u>	<u>10.54</u>	<u>16.00</u>	<u>12.30</u>	<u>5.20</u>	<u>.97</u>
%	<u>0.0</u>	<u>.3</u>	<u>9.4</u>	<u>21.1</u>	<u>32.3</u>	<u>24.6</u>	<u>10.4</u>	<u>1.9</u>

Static Flow: 0 18.2Avg. Microns: 138.1Color L: 98.85 a .53 b 1.86Technician: MH

VAB.0001202191

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: January 13, 1992

Customer: Nibco, Inc.
Route 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

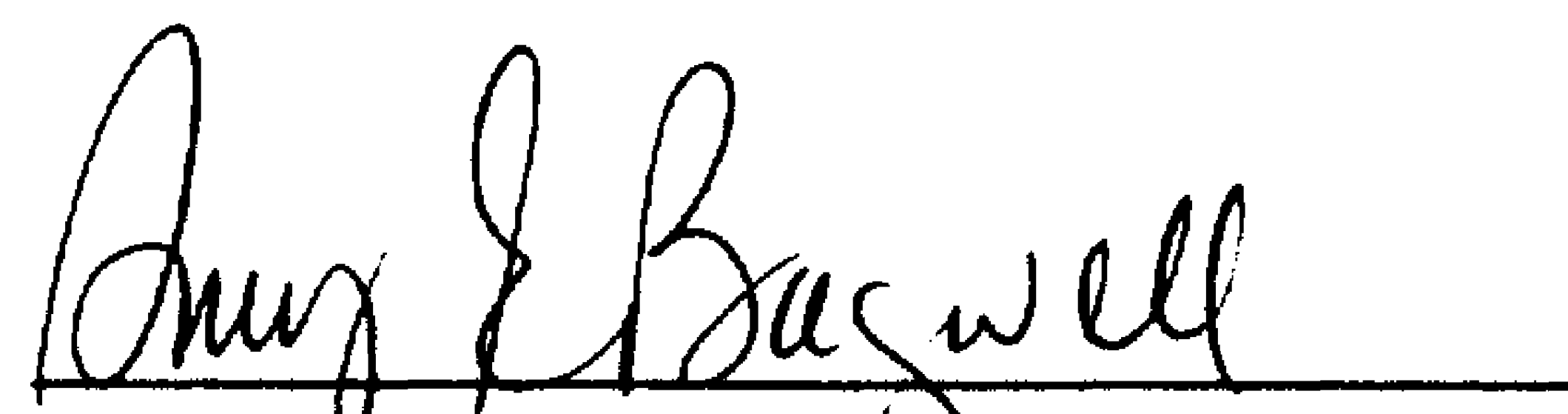
Railcar No.: VIPX 45811

Ship Date: January 10, 1992

Order No.: 0004556-006

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.25
Bulk Density, gm/cc	ABR-2A	0.531
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		15.4
Pan		3.3
Residual VCM, ppm	ABGC-26	0.015
Inherent Viscosity	ABR-10	0.65



Amy E. Bagwell
Laboratory Supervisor/Lead

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202192

PVC RAILCAR ANALYSIS

Load Date: 1-9-92 Product: 5255 Car No.: 45811Time Logged In: 1700 Logged In By: 6Ship Date: 1/11/92 Silo(s): 678 Customer: Nubco
000 4556-006No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.25		.23		.23		.07	
Contamination	$\frac{4}{12}$	—	$\frac{8}{12}$	—	$\frac{10}{14}$	—	$\frac{20}{62}$	—
Bulk Density	.575		.543		.543		.525	
BD w/antistat								
Viscosity	.654		.650		.650		.654	
RVCM	.015		.026		.061		.052	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	$\frac{19}{28}$		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.05</u>	<u>2.24</u>	<u>8.43</u>	<u>15.75</u>	<u>14.23</u>	<u>7.69</u>	<u>1.65</u>
% P	<u>0.0</u>	<u>.1</u>	<u>4.5</u>	<u>16.9</u>	<u>31.3</u>	<u>28.5</u>	<u>15.4</u>	<u>3.3</u>

Static Flow: 0.17.8Avg. Microns: 128.2Color L: 98.97 a 0.71 b 1.29Technician: MJT & R.H.

VAB.0001202193

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: January 10, 1992

Customer: Nibco, Inc.
Route 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

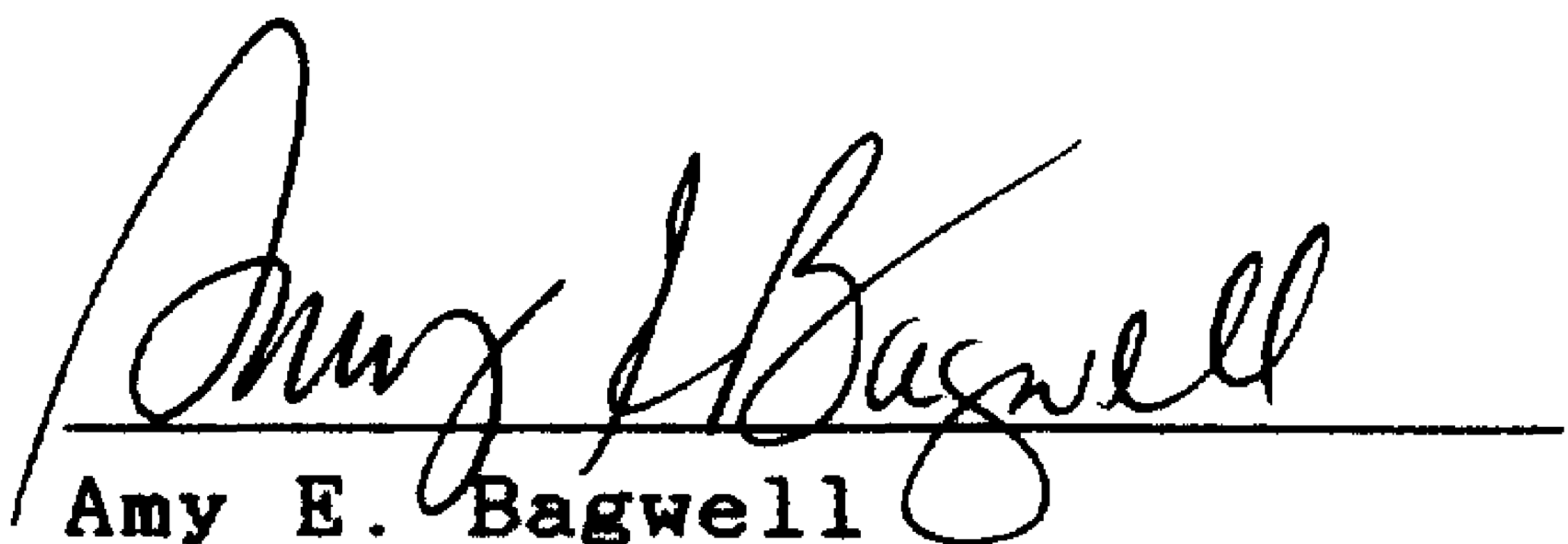
Railcar No.: UTCX 46419

Ship Date: January 8, 1992

Order No.: 0004556-004

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.09
Bulk Density, gm/cc	ABR-2A	0.539
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		8.9
Pan		2.1
Residual VCM, ppm	ABGC-26	0.020
Inherent Viscosity	ABR-10	0.65


Amy E. Bagwell
Laboratory Supervisor/Lead
(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202194

PVC RAILCAR ANALYSIS

Load Date: 1-7-92 Product: 5255 Car No.: 46419Time Logged In: 1500 Logged In By: D.T.Ship Date: 1/8/92 Silo(s): 686, 687, 688 Customer: Nibco
000 4556 004No metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.08		.01		.09		.01	
Contamination	$\frac{10}{9}$	—	$\frac{11}{14}$	—	$\frac{12}{9}$	—	$\frac{10}{8}$	—
Bulk Density	530		547		533		545	
BD w/antistat								
Viscosity	.640		.651		.646		.651	
RVCM	.020		.001		.076		.001	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	9/12		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.05</u>	<u>5.68</u>	<u>11.65</u>	<u>16.27</u>	<u>11.33</u>	<u>4.45</u>	<u>1.03</u>
% P	<u>0.00</u>	<u>.1</u>	<u>10.2</u>	<u>23.3</u>	<u>32.7</u>	<u>22.7</u>	<u>8.9</u>	<u>2.1</u>

Static Flow: 0.17.7Avg. Microns: 139.8Color L: 99.64 a 0.64 b 1.96Technician: M.T. & R.H.

VAB.0001202195

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: 1/8/92

VISTA

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

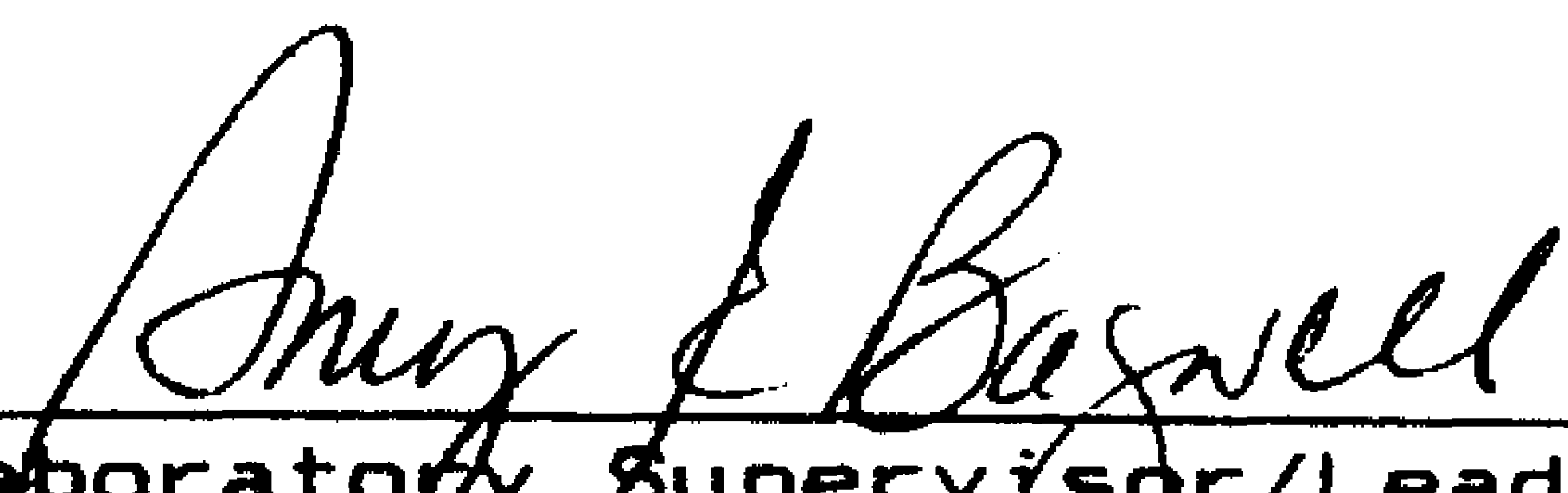
Attention: Ron Greene

Order No.: 0005532-002

Date of Shipment: 1/8/92

Trailer No.: T-415

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.16</u>
Bulk Density, gm/cc	ABR-2A	<u>.530</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>12.8</u>
Pan		<u>2.5</u>
Residual VCM, ppm	ABGC-26	<u>.016</u>
Inherent Viscosity	ABR-10	<u>.65</u>


Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202196

PVC BULK TRAILER ANALYSIS

A

Date 1-8-92 Product 5265 Trailer Number T-415
 Customer Nipco Silo 678 Time 1015-1055
 Technician D.T. HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.16</u>		1. <u>12/14</u>		1. <u>-</u>	1. <u>.530</u>	1. <u>-</u>	L = <u>99.80</u>		
	2.		2.		2.	2.	2.	A = <u>0.55</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.79</u>		
	2.		2.		2.	2.	2.	L =	<u>0</u> <u>92</u>	<u>No Metal</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
	2.		2.		2.	2.	2.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.06</u>	<u>4.35</u>	<u>10.20</u>	<u>15.03</u>	<u>12.70</u>	<u>6.42</u>	<u>1.25</u>	
% on Mesh	<u>0.00</u>	<u>0.1</u>	<u>8.7</u>	<u>20.4</u>	<u>30.1</u>	<u>25.4</u>	<u>12.8</u>	<u>2.5</u>	

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

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

Remarks _____

VAB.0001202197

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

VISTA

Date: 1-8-92

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

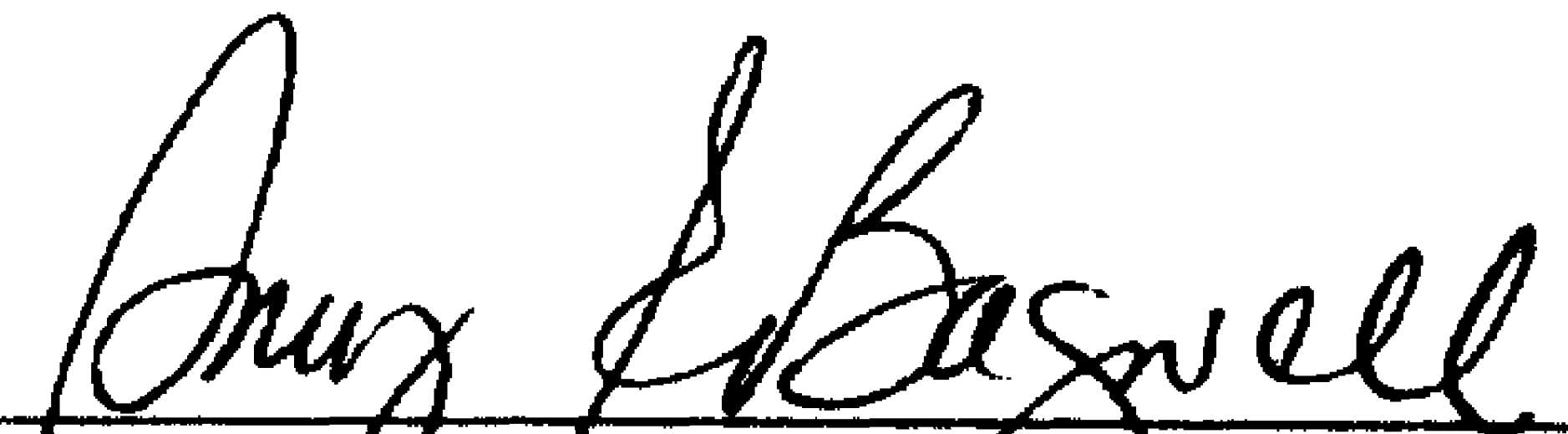
Attention: Ron Greene

Order No.: 0005532-003

Date of Shipment: 1-8-92

Trailer No.: T-809

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.22</u>
Bulk Density, gm/cc	ABR-2A	<u>.523</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>15.0</u>
Pan		<u>2.9</u>
Residual VCM, ppm	ABGC-26	<u>.072</u>
Inherent Viscosity	ABR-10	<u>.65</u>


Laboratory Supervisor/Lead

cc: Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202198

PVC BULK TRAILER ANALYSIS

A

Date 1-8-92 Product 5265 Trailer Number F-809
 Customer Nibco Silo 678 Time 10:5-11:00
 Technician D.T. & HPL Order No. 0005532-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>22</u>		1. <u>10</u>		1. <u>—</u>	1. <u>523</u>	1. <u>—</u>	L = <u>99.81</u>		
	2. <u>—</u>		2. <u>14</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.54</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

0
10.3
No Metal

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.05</u>	<u>3.96</u>	<u>9.27</u>	<u>14.54</u>	<u>13.12</u>	<u>7.52</u>	<u>1.46</u>	
% on Mesh	<u>0.0</u>	<u>0.1</u>	<u>7.9</u>	<u>18.5</u>	<u>29.4</u>	<u>26.2</u>	<u>15.0</u>	<u>2.9</u>	

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

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

Remarks _____

VAB.0001202199

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: 1/7/92

VISTA

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

Order No.: 0005531-002

Date of Shipment: 1/7/92

Trailer No.: T-722

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Bulk Density, gm/cc	ABR-2A	<u>.542</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>11.3</u>
Pan		<u>1.9</u>
Residual VCM, ppm	ABGC-26	<u>.001</u>
Inherent Viscosity	ABR-10	<u>.65</u>


Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202200

PVC BULK TRAILER ANALYSIS

A

Date 1-7-72. Product 5265 Trailer Number T-722
 Customer Ni 1000 Silo 686 Time 0820-0855
 Technician P.T. + HPL Order No. 0005531-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>05</u>		1. <u>4/4</u>		1. <u>—</u>	1. <u>.542</u>	1. <u>—</u>	L = <u>99.52</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.74</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>	<u>0</u> <u>8.3</u>	<u>NO</u> <u>THICK</u>
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.02</u>	<u>2.12</u>	<u>10.34</u>	<u>17.58</u>	<u>13.04</u>	<u>5.63</u>	<u>0.96</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>4.2</u>	<u>20.7</u>	<u>35.8</u>	<u>26.1</u>	<u>11.3</u>	<u>1.9</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 1-7-92

VISTA

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

Order No.: 0005531-003

Date of Shipment: 1-7-92

Trailer No.: T-479

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.17</u>
Bulk Density, gm/cc	ABR-2A	<u>.530</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>14.7</u>
Pan		<u>2.9</u>
Residual VCM, ppm	ABGC-26	<u>.086</u>
Inherent Viscosity	ABR-10	<u>.65</u>

David Thompson
Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202202

PVC BULK TRAILER ANALYSIS

Date 1-7-92 Product 5265 Trailer Number T-479
 Customer Nibco Silo 678 Time 1440-1440
 Technician D.T. & HDL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.17</u>		1. <u>9/3</u>		1. <u>-</u>	1. <u>.530</u>	1. <u>-</u>	L = <u>99.91</u>		
	2.		2.					A = <u>0.60</u>		
MIDDLE	1.		1.		1.	1.	1.	L =	<u>9.0</u>	<u>NO METAL</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.03</u>	<u>3.72</u>	<u>9.75</u>	<u>14.41</u>	<u>13.08</u>	<u>7.35</u>	<u>1.45</u>	
% on Mesh	<u>0.00</u>	<u>0.1</u>	<u>7.4</u>	<u>19.5</u>	<u>29.2</u>	<u>26.2</u>	<u>14.7</u>	<u>2.9</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: 1-6-92

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

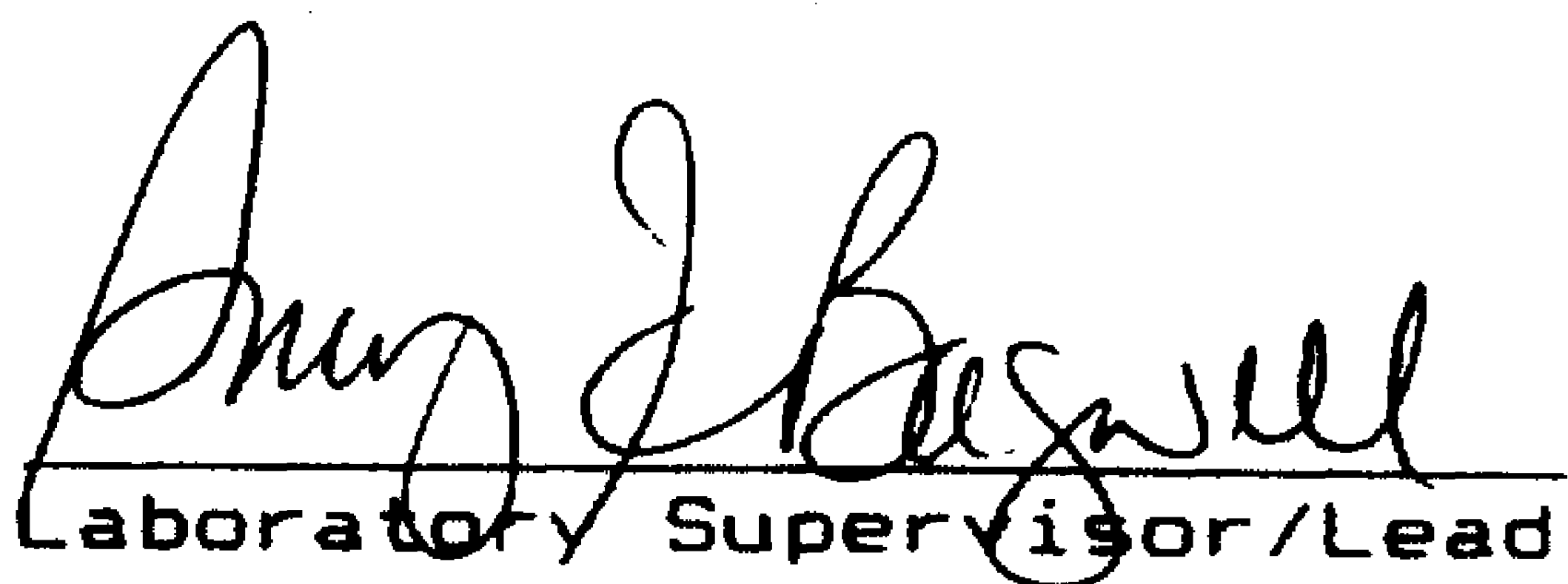
Attention: Ron Greene

Order No.: 0005531-000

Date of Shipment: 1-6-92

Trailer No.: T-375

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.21</u>
Bulk Density, gm/cc	ABR-2A	<u>.540</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>11.9</u>
Pan		<u>2.3</u>
Residual VCM, ppm	ABGC-26	<u>.027</u>
Inherent Viscosity	ABR-10	<u>.65</u>


Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202204

PVC BULK TRAILER ANALYSIS

A

Date 1-6-92 Product 5265 Trailer Number T-395
 Customer Nibco Silo 686 Time 1050-1120
 Technician D.T. & HPL Order No. 0005531-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>21</u>		1. <u>11</u>		1. <u>-</u>	1. <u>.540</u>	1. <u>-</u>	L = <u>99.39</u>		
	2. <u>.....</u>		2. <u>7</u>					A = <u>0.77</u>		
MIDDLE	1. <u>.....</u>		1. <u>.....</u>					B = <u>2.14</u>		
	2. <u>.....</u>		2. <u>.....</u>							
END	1. <u>.....</u>		1. <u>.....</u>					L =		
	2. <u>.....</u>		2. <u>.....</u>					A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.01</u>	<u>3.76</u>	<u>10.48</u>	<u>15.95</u>	<u>12.50</u>	<u>5.97</u>	<u>1.13</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>7.5</u>	<u>21.0</u>	<u>32.3</u>	<u>25.0</u>	<u>11.9</u>	<u>2.3</u>	

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

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

Remarks _____

VAB.0001202205

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: 1-6-92

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

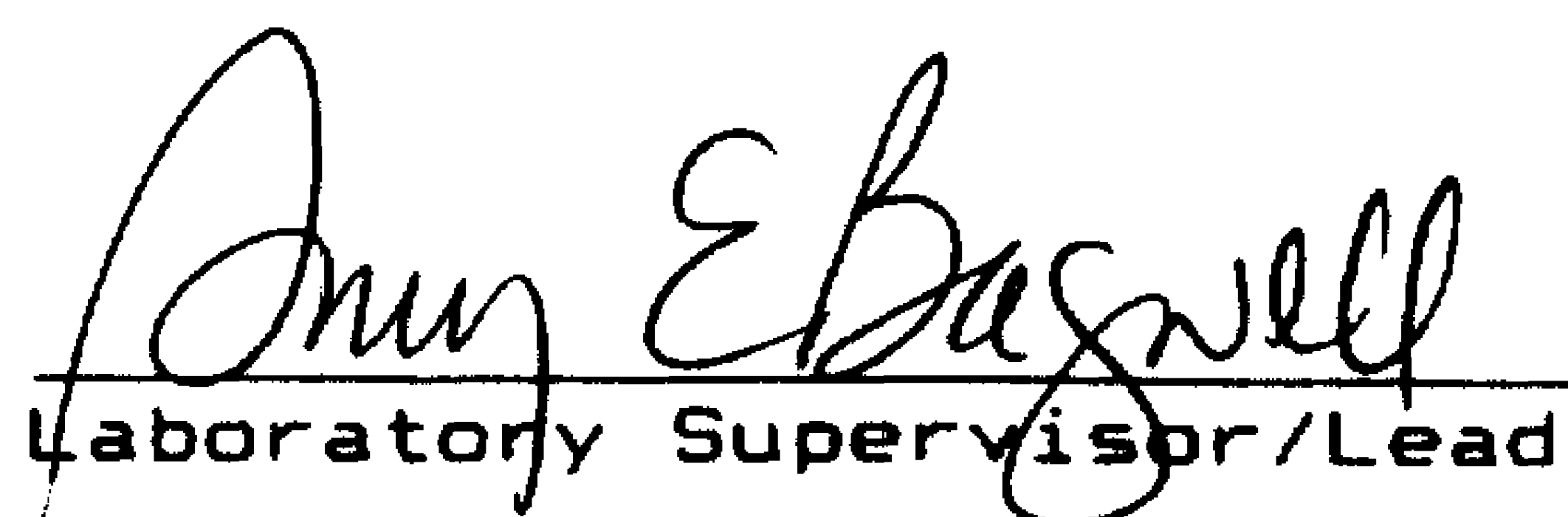
Order No.: 0005531-001

Date of Shipment: 1-6-92

Trailer No.: T-376

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.23</u>
Bulk Density, gm/cc	ABR-2A	<u>.536</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>10.4</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.047</u>
Inherent Viscosity	ABR-10	<u>.65</u>


Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202206

PVC BULK TRAILER ANALYSIS

Date 1-6-92 Product 5265 Trailer Number T-376
 Customer Nibco Silo 686 Time 1050-1130
 Technician P.T. FHP Order No. 000531-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>23</u>		1. <u>12/5</u>		1. <u>-</u>	1. <u>.536</u>	1. <u>-</u>	L = <u>99.29</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>0.72</u>		
MIDDLE	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>	<u>0/8.4</u>	<u>No metal</u>
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
END	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
								B = <u>.....</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.01</u>	<u>4.32</u>	<u>11.35</u>	<u>15.78</u>	<u>11.91</u>	<u>5.18</u>	<u>1.28</u>	
% on Mesh	<u>0.0</u>	<u>0.1</u>	<u>8.6</u>	<u>22.7</u>	<u>31.8</u>	<u>23.8</u>	<u>10.4</u>	<u>2.6</u>	

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

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

Remarks

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: 1-5-92

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

Order No.: 0005532-001

Date of Shipment: 1-5-92

Trailer No.: T-372

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.03</u>
Bulk Density, gm/cc	ABR-2A	<u>.554</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>9.0</u>
Pan		<u>2.9</u>
Residual VCM, ppm	ABGC-26	<u>.003</u>
Inherent Viscosity	ABR-10	<u>.65</u>

Melvin Galt
Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202208

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: 1-5-92

Customer: Nibco, Inc.
Rt. 2
Greensboro, GA 30642

Product: 5265

Attention: Ron Greene

Order No.: 0005532-000

Date of Shipment: 1-5-92

Trailer No.: T-371

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.01</u>
Bulk Density, gm/cc	ABR-2A	<u>.551</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>9.2</u>
Pan		<u>2.8</u>
Residual VCM, ppm	ABGC-26	<u>.001</u>
Inherent Viscosity	ABR-10	<u>.65</u>

Melvin Tallie
Laboratory Supervisor/Lead

cc:Nibco
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202210

PVC BULK TRAILER ANALYSIS

A

Date 1-5-92 Product 5265 Trailer Number T-371
 Customer Nibco Silo 686 Time 0730
 Technician M.T. Order No. 0005532-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. .01		1.2		1.	1.	1.	L = 97.96	0/7.5	
	2.		6		—	.551	—	A = 0.46		
	2.		2.		2.	2.	2.	B = 1.85		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	0.0	0.02	4.88	11.86	15.96	11.66	4.58	1.41	
% on Mesh	0.0	0.0	9.8	23.7	31.2	23.3	9.2	2.8	

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

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

Remarks _____

VAB.0001202211

NIBCO - GOSHEN, IN
A

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Fax # 219-534-1079

Date: January 4, 1993

Customer: Nibco, Inc.
701 Eisenhower Drive
Goshen, IN 46526

Product: 5265

Attention: Pat Forrest

Railcar No.: GACX 73411

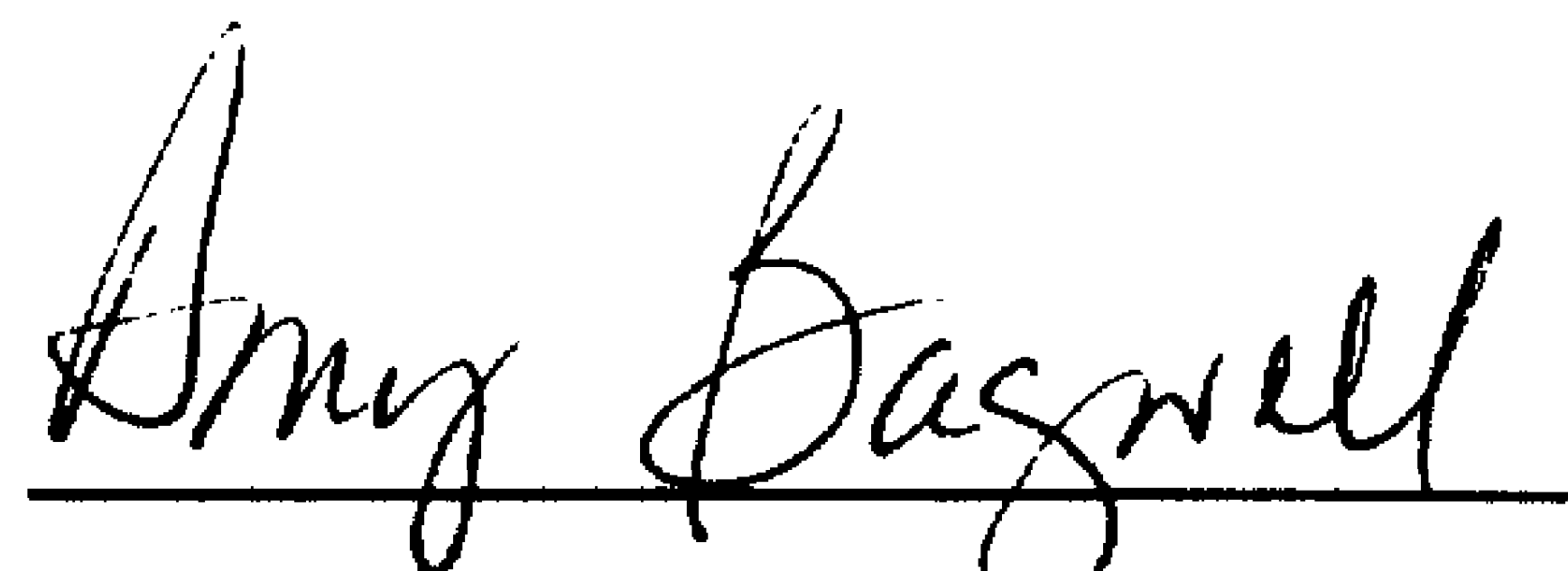
Ship Date: December 31, 1992

Order No.: 0019801-002

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.543
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	20.9
% On Pan		5.0 Max.	2.0
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.007
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

VAB.0001202213

PVC RAILCAR ANALYSIS

Load Date: 12-25-92Product: 5265Car No.: 73411Time Logged In: 2400Logged In By: D.T.Silo(s): 686, 687, 688Ship Date: 12/31Order No: 0019801-002Customer: Nibco, Goshen, IN

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.13		.15		.17		.18	
Contamination	BL		3		5		4	
	BR		8		9		6	
Bulk Density	.544		.546		.540		.543	
BD w/antistat								
Viscosity	.658		.664		.661		.659	
RVCM	.007		.024		.001		.001	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	1/1							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.05</u>	<u>3.15</u>	<u>8.50</u>	<u>13.60</u>	<u>13.50</u>	<u>10.45</u>	<u>1.00</u>
%	<u>0.0</u>	<u>.1</u>	<u>6.3</u>	<u>17.0</u>	<u>26.7</u>	<u>27.0</u>	<u>20.9</u>	<u>2.0</u>

Static Flow: 0 / 8.2Avg. Microns: 128.7Color L: 99.15 a .75 b 1.96Technician: MM

CERTIFICATE OF ANALYSIS

Fax # 219-534-1079

VISTA

Date: 12/22/92

Customer: Nibco, Inc.
701 Eisenhower Drive
Goshen, IN 46526

Product: 5265

Attention: Pat Forrest

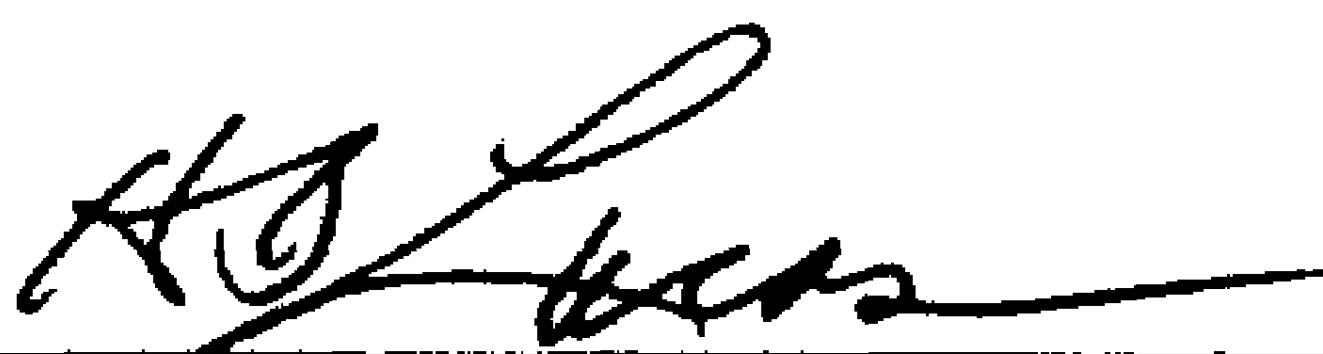
Railcar No.: VIPX 45872

Ship Date: 12/21/92

Order No.: 0019801-001

Property	Test Method	Specification	Analysis
Moisture, %	ABR-1A	0.30 Max.	0.18
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.550
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	20.0
% On Pan		5.0 Max.	2.4
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.128
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


H. D. Lucas
Laboratory Supervisor

(601) 369-3624

cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167

Post-It™ brand fax transmittal memo 7671		# of pages > /
To Mike Hein	From Amy Bagwell	
Co.	Co. Vista	
Dept.	Phone #	
Fax #	Fax #	

Moisture %	.12		.10		.13		.18	
Contamination BL	3	—	2	—	4	—	3	—
BR	6		7		5		6	
Bulk Density	.551		.550		.551		.550	
BD w/antistat								
Viscosity	.662		.664		.662		.665	
RVCM	.128		.125		.095		.029	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/3							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	.06	1.93	8.26	14.59	13.52	10.00	1.22
%	0.0	.1	3.9	16.5	29.8	27.0	2.00	2.4

Static Flow: 0, 83 Avg. Microns: 126.7

Color L: 99.33 a .58 b 2.05

Technician: 

TRANSMISSION CONFIRMATION REPORT No.=001191

DATE/TIME	DEC 22, 1992 2:55PM
DURATION	26s
TRANSMITTER (FROM)	VISTA QC LAB 601 369 3642
RECEIVER (TO)	----- 2195341079
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3
RESOLUTION	NORMAL

VAB.0001202216
55-0000349

TRANSMISSION CONFIRMATION REPORT No.=001268

DATE/TIME	JAN 6, 1993 2:35PM
DURATION	28s
TRANSMITTER (FROM)	VISTA QC LAB 601 369 3642
RECEIVER (TO)	----- 2195341079
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3
RESOLUTION	NORMAL

VAB.0001202217
55-0000349

PVC RAILCAR ANALYSIS

VIPX

Load Date: 12-10-92Product: 5265Car No.: 45872Time Logged In: 1830Logged In By: CoSilo(s): 687Ship Date: 12/21/92Order No: 0019801-001Customer: NibcoGASTEN INno metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.10		.13		.18	
Contamination ^{BL} ^{BR}	<u>3</u> <u>6</u>	—	<u>2</u> <u>7</u>	—	<u>4</u> <u>5</u>	—	<u>3</u> <u>6</u>	—
Bulk Density	.551		.550		.551		.550	
BD w/antistat								
Viscosity	.662		.664		.662		.665	
RVCM	.128		.125		.095		.029	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>2/3</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.06</u>	<u>1.93</u>	<u>8.26</u>	<u>14.59</u>	<u>13.52</u>	<u>10.00</u>	<u>1.22</u>
%	<u>0.0</u>	<u>.1</u>	<u>3.9</u>	<u>16.5</u>	<u>29.8</u>	<u>27.0</u>	<u>20.0</u>	<u>2.4</u>

Static Flow: 0,83Avg. Microns: 126.7Color L: 99.33 a .58 b 2.05Technician: Co

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 # 219-534-1079

Date: December 17, 1992

**Customer: Nibco, Inc.
701 Eisenhower Drive
Goshen, IN 46526**

VISTA

Product: 5265

Attention: Pat Forrest

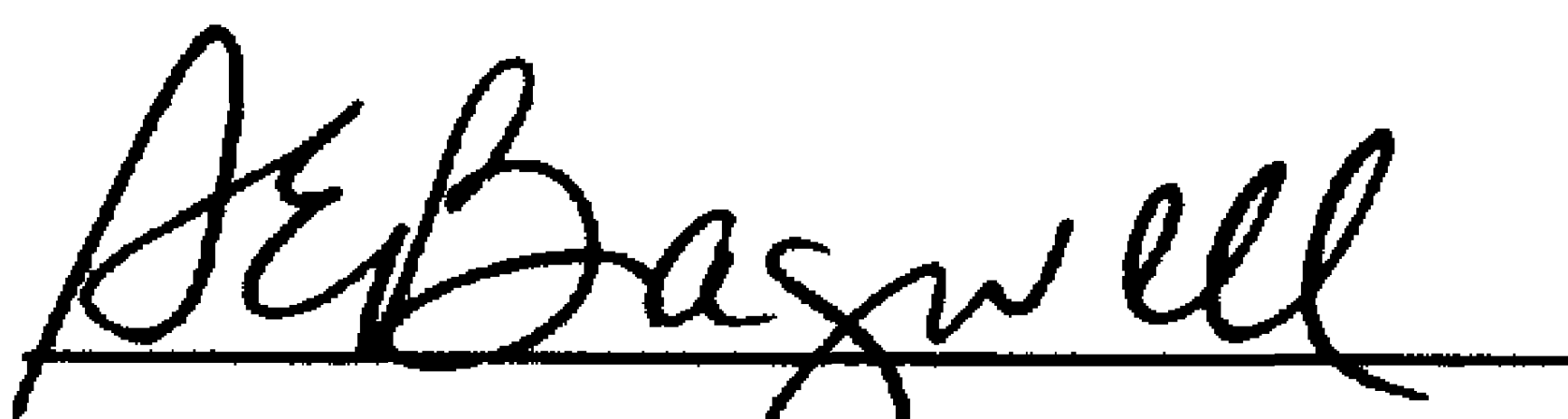
Railcar No.: UTCX 46419

Ship Date: December 15, 1992

Order No.: 0019801-000

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.23
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.548
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	13.2
% On Pan		5.0 Max.	2.3
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.113
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



**Amy E. Bagwell
Laboratory Supervisor**

(601) 369-3624

**cc: Nibco, Inc.
Mr. Louis Macakanja
P. O. Box 1167
Elkhart, IN 46515-1167**

VAB.0001202219

PVC RAILCAR ANALYSIS

Load Date: 12-7-92Product: 5265Car No.: 46419Time Logged In: 0730Logged In By: P.F.Silo(s): 687+688Ship Date: 12/15/92Order No: 0019801-000 Customer: Nibco, Goshen, INNO METAL

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.15		.21		.21		.23	
Contamination	BL		9		8		12	
	BR		9		13		7	
Bulk Density	.546		.550		.552		.543	
BD w/antistat								
Viscosity	.657		.657		.657		.660	
RVCM	.113		.432		.117		.460	
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>0.04</u>	<u>3.74</u>	<u>11.06</u>	<u>15.73</u>	<u>12.00</u>	<u>6.59</u>	<u>1.17</u>
%	<u>0.0</u>	<u>0.1</u>	<u>7.5</u>	<u>22.1</u>	<u>30.8</u>	<u>24.0</u>	<u>13.2</u>	<u>2.3</u>

Static Flow: 0.178Avg. Microns: 134.9Color L: 99.60 a 0.54 b 1.59Technician: D.T. + HPL

A
NIBCO - KENTUCKY

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: 9-13-92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0014576-003

Attention: Sandy Money

Cust. PO No.: 31-30496

Ship Date: 9-13-92

Trailer No.: T-380

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.12</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.534</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>00</u>
% On 200 Mesh		*NDS	<u>4.8</u>
% On Pan		5.0 Max.	<u>2.3</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.140</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Gallic

Laboratory Supervisor/Lead (601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202222

PVC BULK TRAILER ANALYSIS

A

Date 9-12-92 Product 5305 Trailer Number T-380
 Customer Nibco Silo 687 Time 10:45
 Technician RH Order No. 0014576-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>12</u>		1. <u>9</u>		1. <u>-</u>	1. <u>.534</u>	1. <u>-</u>	L = <u>100.00</u>		<u>0</u> <u>7.6</u>
	2. <u>12</u>		2. <u>12</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>0.23</u>		
								B = <u>1.61</u>		
MIDDLE	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		
								B = <u> </u>		
END	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		
								B = <u> </u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt. <u>9</u>	<u>0.00</u>	<u>0.32</u>	<u>7.66</u>	<u>14.48</u>	<u>16.11</u>	<u>8.00</u>	<u>2.38</u>	<u>1.13</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>15.3</u>	<u>29.0</u>	<u>32.0</u>	<u>16.0</u>	<u>4.8</u>	<u>2.3</u>	

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

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

Remarks

VAB.0001202223

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8/27/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0013692-007

Attention: Sandy Money

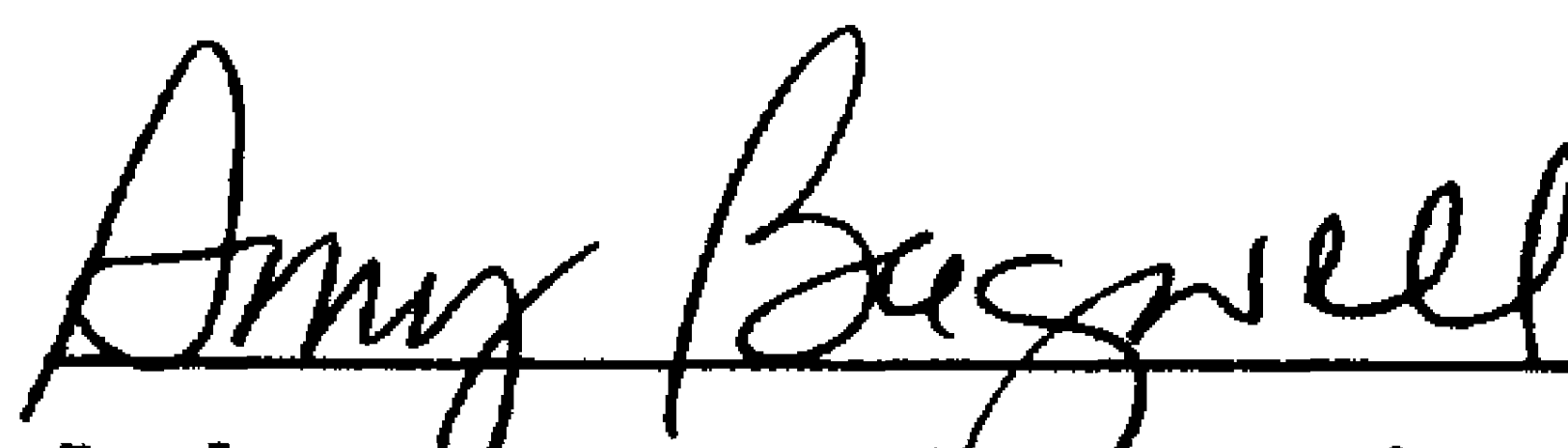
Cust. PO No.: 31-30332

Ship Date: 8/27/92

Trailer No.: T-379

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.512</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>6.9</u>
% On Pan		5.0 Max.	<u>3.1</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.001</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202224

PVC BULK TRAILER ANALYSIS

A

Date 8-27-92 Product 5305 Trailer Number 7-379
 Customer Nibco Silo 678 Time 09:15
 Technician M.T Order No. 0013692007

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.2</u>		1. <u>6</u>		1. <u>-</u>	1. <u>.504</u>	1. <u>-</u>	L = <u>100.04</u>	<u>0</u> <u>/9.0</u>	
	2.		2. <u>8</u>		2.	2. <u>Rec. .512</u>	2.	A = <u>0.47</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt. <u>P</u>	<u>0.0</u>	<u>.10</u>	<u>6.19</u>	<u>12.68</u>	<u>16.57</u>	<u>9.35</u>	<u>3.47</u>	<u>1.53</u>	
% on Mesh	<u>0.0</u>	<u>.2</u>	<u>12.4</u>	<u>25.4</u>	<u>33.3</u>	<u>18.7</u>	<u>6.9</u>	<u>3.1</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 9/10/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0014576-002

Attention: Sandy Money

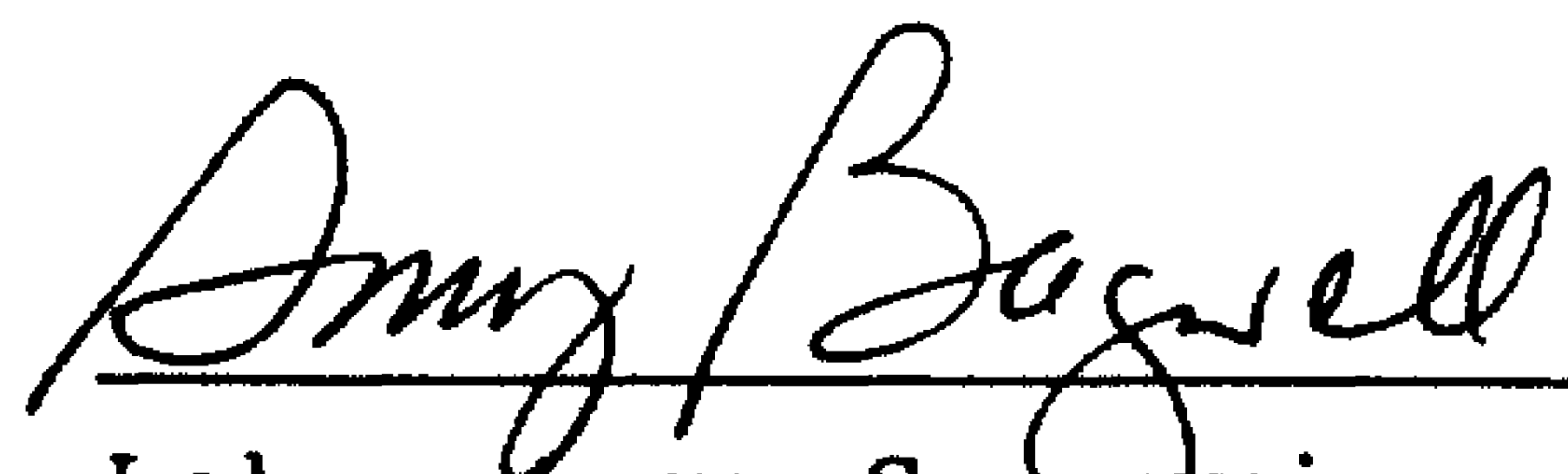
Cust. PO No.: 31-30496

Ship Date: 9/10/92

Trailer No.: T-380

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>0.01</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>0.519</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>5.1</u>
% On Pan		5.0 Max.	<u>1.8</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>0.380</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>0.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202226

PVC BULK TRAILER ANALYSIS

A

Date 9-10-92 Product 5305 Trailer Number 7-380
 Customer Nibco Silo 687 Time 10:20
 Technician MT Order No. 0014576-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.01</u>		1. <u>3</u>		1. <u>-</u>	1. <u>.519</u>	1. <u>-</u>	L = <u>99.47</u>	<u>0/8.2</u>	
	2. <u></u>		2. <u>7</u>		2. <u></u>	2. <u></u>	2. <u></u>	A = <u>0.33</u>		
								B = <u>1.68</u>		
MIDDLE	1. <u></u>		1. <u></u>		1. <u></u>	1. <u></u>	1. <u></u>	L = <u></u>		
	2. <u></u>		2. <u></u>		2. <u></u>	2. <u></u>	2. <u></u>	A = <u></u>		
								B = <u></u>		
END	1. <u></u>		1. <u></u>		1. <u></u>	1. <u></u>	1. <u></u>	L = <u></u>		
	2. <u></u>		2. <u></u>		2. <u></u>	2. <u></u>	2. <u></u>	A = <u></u>		
								B = <u></u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>1.12</u>	<u>8.67</u>	<u>13.99</u>	<u>15.05</u>	<u>7.65</u>	<u>2.53</u>	<u>0.89</u>	
% on Mesh	<u>0.0</u>	<u>2.2</u>	<u>17.3</u>	<u>28.0</u>	<u>30.3</u>	<u>15.3</u>	<u>5.1</u>	<u>1.8</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 7 Sept. 92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0014576-001

Attention: Sandy Money

Cust. PO No.: 31-30496

Ship Date: 7 Sept. 92

Trailer No.: T-380

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.14</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.524</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>6.6</u>
% On Pan		5.0 Max.	<u>3.9</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>0.029</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>0.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

James M. Hay
Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202228

PVC BULK TRAILER ANALYSIS

A

Date 9-7-92 Product 5305 Trailer Number T-380
 Customer Nibco Silo 679 Time 1300
 Technician MS Order No. 0014576-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.14</u>		1. <u>3/6</u>		1. <u>—</u>	1. <u>.524</u>	1. <u>—</u>	L = <u>99.77</u>	<u>Flow</u> <u>9/7.7</u>	
	2.		2.		2.	2.	2.	A = <u>.19</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.55</u>	<u>7.30</u>	<u>13.09</u>	<u>15.56</u>	<u>8.50</u>	<u>3.30</u>	<u>1.97</u>	
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>14.6</u>	<u>26.2</u>	<u>30.6</u>	<u>17.0</u>	<u>6.6</u>	<u>3.9</u>	

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

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

Remarks _____

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: 9-2-92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0014576-000

Attention: Sandy Money

Cust. PO No.: 31-30496

Ship Date: 9-2-92

Trailer No.: T-381

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.526</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>8.0</u>
% On Pan		5.0 Max.	<u>3.0</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.065</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie

Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202230

PVC BULK TRAILER ANALYSIS

A

Date 9-2-92 Product 5305 Trailer Number T-381
 Customer Nibco Silo 687 Time 2250-
 Technician M.T Order No. 0014576-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.22</u>		1. <u>8</u>		1. <u>-</u>	1. <u>.526</u>	1. <u>-</u>	L = <u>99.15</u>	<u>0/</u> <u>8.3</u>	
	2. <u>1.22</u>		2. <u>9</u>					A = <u>0.57</u>		
MIDDLE	1. <u>1.22</u>		1. <u>8</u>		1. <u>-</u>	1. <u>.526</u>	1. <u>-</u>	L = <u>99.15</u>	<u>0/</u> <u>8.3</u>	
	2. <u>1.22</u>		2. <u>9</u>					A = <u>0.57</u>		
END	1. <u>1.22</u>		1. <u>8</u>		1. <u>-</u>	1. <u>.526</u>	1. <u>-</u>	L = <u>99.15</u>	<u>0/</u> <u>8.3</u>	
	2. <u>1.22</u>		2. <u>9</u>					A = <u>0.57</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.29</u>	<u>6.26</u>	<u>12.01</u>	<u>16.12</u>	<u>9.82</u>	<u>4.02</u>	<u>1.51</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>12.5</u>	<u>24.0</u>	<u>32.3</u>	<u>19.6</u>	<u>8.0</u>	<u>3.0</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8-30-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0013692-008

Attention: Sandy Money

Cust. PO No.: 31-30332

Ship Date: 8-30-92

Trailer No.: T-384

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.04</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.515</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>00</u>
% On 200 Mesh		*NDS	<u>12.1</u>
% On Pan		5.0 Max.	<u>3.4</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.120</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie

Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202232

PVC BULK TRAILER ANALYSIS

A

Date 8-29-92 Product 5305 Trailer Number T-384
Customer N:600 Silo 680 Time 09:35
Technician M.T Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.4</u>		1. <u>6</u>		1. <u>-</u>	1. <u>515</u>	1. <u>-</u>	L = <u>99.78</u>	<u>0/</u> <u>9.2</u>	
			<u>6</u>					A = <u>0.48</u>		
	2.		2.		2.	2.	2.	B = <u>1.89</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt. <u>P</u>	<u>0.0</u>	<u>0.06</u>	<u>4.62</u>	<u>10.66</u>	<u>15.38</u>	<u>11.36</u>	<u>6.04</u>	<u>1.72</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>9.2</u>	<u>21.3</u>	<u>31.2</u>	<u>22.7</u>	<u>12.1</u>	<u>3.4</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8/20/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0013692-005

Attention: Sandy Money

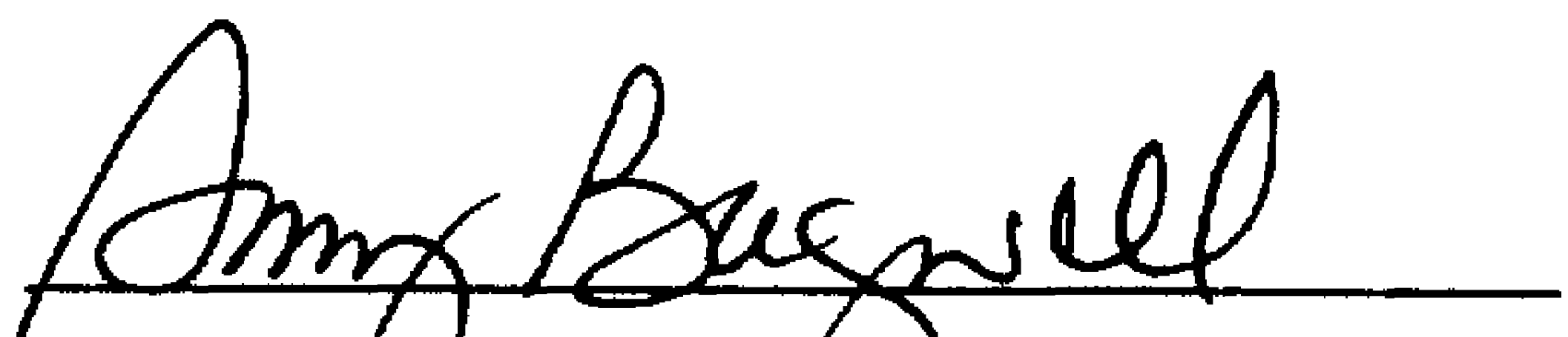
Cust. PO No.: 31-30332

Ship Date: 8/20/92

Trailer No.: F383

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.06</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.526</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>9.7</u>
% On Pan		5.0 Max.	<u>3.0</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.027</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202234

PVC BULK TRAILER ANALYSIS

Date 8-19-92 Product 5305 Trailer Number T-383
 Customer Nibco Silo 679 Time 13:15
 Technician M.T Order No. 0013692-005

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>06</u>		1. <u>10</u>		1. <u>—</u>	1. <u>.526</u>	1. <u>—</u>	L = <u>98.70</u>	<u>0/7.5</u>	
	2. <u>10</u>		2. <u>10</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.56</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>1.06</u>	<u>4.43</u>	<u>10.38</u>	<u>16.44</u>	<u>12.35</u>	<u>4.87</u>	<u>1.48</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>8.9</u>	<u>20.8</u>	<u>32.8</u>	<u>24.7</u>	<u>9.7</u>	<u>3.0</u>	

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

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

Remarks —

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: 8-16-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 8-16-92

Product: 5305

Order No.: 0013692-004

Cust. PO No.: 31-30332

Trailer No.: T-377

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.04</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.511</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>7.5</u>
% On Pan		5.0 Max.	<u>3.7</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.001</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie
Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202236

PVC BULK TRAILER ANALYSIS

Date 8-16-92 Product 5305 Trailer Number T-377
Customer nibco Silo 683 Time 0830!
Technician M.T Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.04</u>		1. <u>6</u>		1. <u>—</u>	1. <u>.499</u>	1. <u>—</u>	L = <u>99.44</u>	<u>0</u> <u>/</u> <u>15.7</u>	
	2. <u>8</u>		2. <u>8</u>		2. <u>—</u>	2. <u>Res</u> <u>.511</u>	2. <u>—</u>	A = <u>0.61</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>	<u>Res</u> <u>0</u> <u>/</u> <u>10.0</u>	
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt. <u>P</u>	<u>0.0</u>	<u>.04</u>	<u>5.03</u>	<u>12.80</u>	<u>16.84</u>	<u>9.66</u>	<u>3.74</u>	<u>1.87</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>10.1</u>	<u>25.6</u>	<u>33.7</u>	<u>19.3</u>	<u>7.5</u>	<u>3.7</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8/13/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0013692-003

Attention: Sandy Money

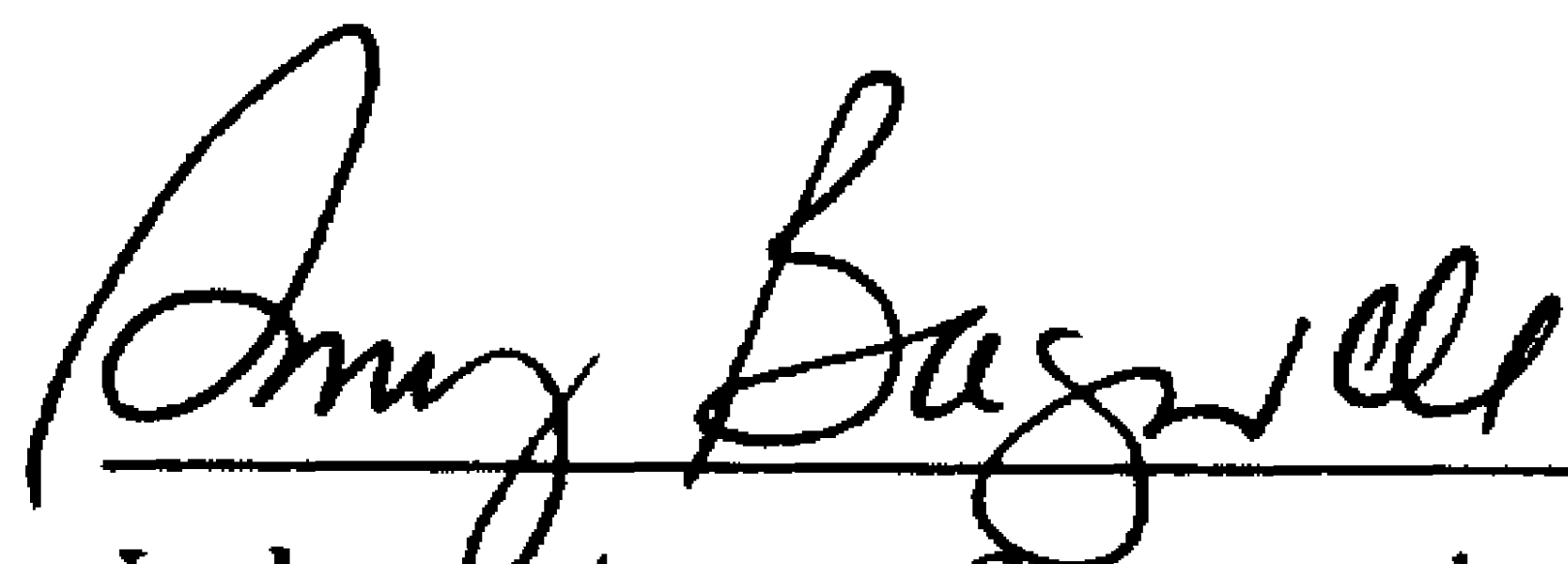
Cust. PO No.: 31-30332

Ship Date: 8/13/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>0.01</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>0.531</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>6.3</u>
% On Pan		5.0 Max.	<u>3.7</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.025</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202238

PVC BULK TRAILER ANALYSIS

Date 8-13-92 Product 5305 Trailer Number T-377
 Customer Nico Silo 683 Time 10:20
 Technician M.T Order No. 0013692-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.01		1.4		1.	1.	1.	L = 99.50	0/8.8	
			8		—	.531	—	A = 0.68		
	2.		2.		2.	2.	2.	B = 2.14		
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	0.0	.07	5.85	13.37	16.60	8.94	3.15	1.85	
% on Mesh	0.0	.1	11.7	26.7	33.6	17.9	6.3	3.7	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8-9-92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 003692-002

Attention: Sandy Money

Cust. PO No.: 31-30332

Ship Date: 8-9-92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.19</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>1.537</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>5.6</u>
% On Pan		5.0 Max.	<u>3.9</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.038</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Curtis Outlaw

Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202240

PVC BULK TRAILER ANALYSIS

Date 8-9-92 Product 5305 Trailer Number T-377
 Customer nibro Silo 683 Time 0800
 Technician Cot ES Order No. 0013692-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.19</u>		1. <u>3/6</u>		1.	1. <u>537</u>	1. <u>-</u>	L = <u>99.55</u>		
	2.		2.		2.	2.	2.	A = <u>.52</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>2.16</u>		<u>0/8.7</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.11</u>	<u>6.46</u>	<u>13.53</u>	<u>16.60</u>	<u>8.57</u>	<u>2.82</u>	<u>1.93</u>	
% on Mesh	<u>0.0</u>	<u>.2</u>	<u>12.9</u>	<u>27.1</u>	<u>33.2</u>	<u>17.1</u>	<u>5.6</u>	<u>3.9</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8-6-92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0013692-001

Attention: Sandy Money

Cust. PO No.:

Ship Date: 8-6-92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.11</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.555</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>6.0</u>
% On 200 Mesh		*NDS	<u>7.6</u>
% On Pan		5.0 Max.	<u>3.6</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.005</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202242

PVC BULK TRAILER ANALYSIS

Date 8-6-92 Product 5305 Trailer Number T-377
 Customer Nibco Silo 684 Time 00:30
 Technician R31 + JS Order No. 0013692-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>2</u>		1. <u>-</u>	1. <u>.555</u>	1. <u>-</u>	L = <u>99.49</u>		<u>flow</u> <u>0</u> <u>7.9</u>
	2. <u>10</u>		2. <u>10</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>.78</u>		
MIDDLE	1. <u>11</u>		1. <u>2</u>		1. <u>-</u>	1. <u>.555</u>	1. <u>-</u>	L = <u>99.49</u>		<u>0.018</u> <u>OR</u> <u>.005</u>
	2. <u>10</u>		2. <u>10</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>.78</u>		
END	1. <u>11</u>		1. <u>2</u>		1. <u>-</u>	1. <u>.555</u>	1. <u>-</u>	L = <u>99.49</u>		
	2. <u>10</u>		2. <u>10</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>.78</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>0.07</u>	<u>5.97</u>	<u>13.09</u>	<u>16.44</u>	<u>8.86</u>	<u>3.80</u>	<u>1.79</u>	
% on Mesh	<u>0.0</u>	<u>0.1</u>	<u>11.9</u>	<u>26.2</u>	<u>32.9</u>	<u>17.7</u>	<u>7.6</u>	<u>3.6</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8/3/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0013692-001

Attention: Sandy Money

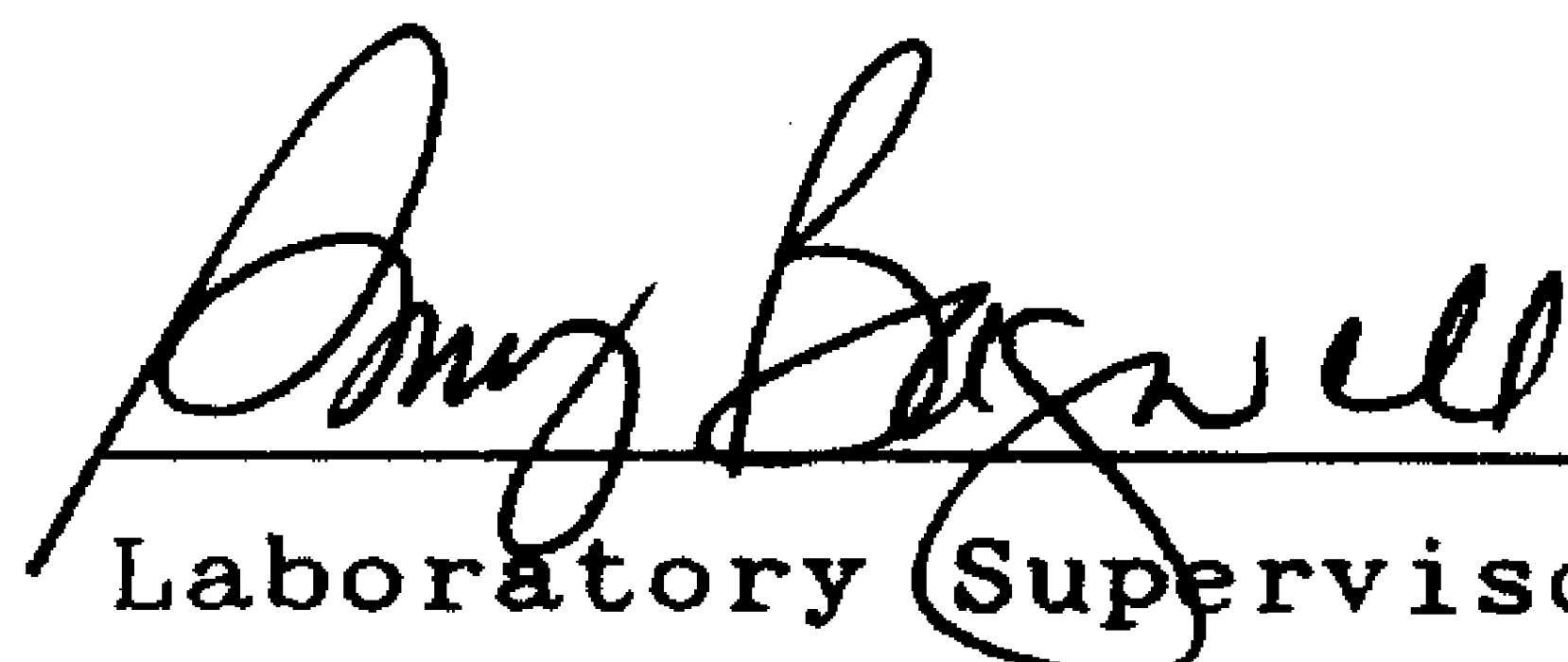
Cust. PO No.: 31-30332

Ship Date: 8/3/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.16</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.536</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>8.1</u>
% On Pan		5.0 Max.	<u>2.5</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.019</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202244

PVC BULK TRAILER ANALYSIS

Date 8/3/92 Product 5305 Trailer Number 7377
 Customer NIBCO Silo 679 Time 0925-1005
 Technician DTL + HDL Order No. 0013692-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.16</u>		1. <u>4/6</u>		1. <u>—</u>	1. <u>.536</u>	1. <u>—</u>	L <u>98.96</u>		<u>0/9.5</u>
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.44</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		<u>NO METAL</u>
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.10</u>	<u>6.67</u>	<u>13.23</u>	<u>15.08</u>	<u>7.80</u>	<u>3.68</u>	<u>3.39</u>	
% on Mesh	<u>0.0</u>	<u>0.2</u>	<u>13.3</u>	<u>26.5</u>	<u>30.3</u>	<u>15.6</u>	<u>7.4</u>	<u>6.7</u>	

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.15</u>	<u>7.15</u>	<u>13.68</u>	<u>15.63</u>	<u>8.18</u>	<u>4.03</u>	<u>1.25</u>	
% on Mesh	<u>0.0</u>	<u>0.3</u>	<u>14.3</u>	<u>27.4</u>	<u>31.0</u>	<u>16.4</u>	<u>8.1</u>	<u>2.5</u>	

Remarks —

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 7/30/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0012443-008

Attention: Sandy Money

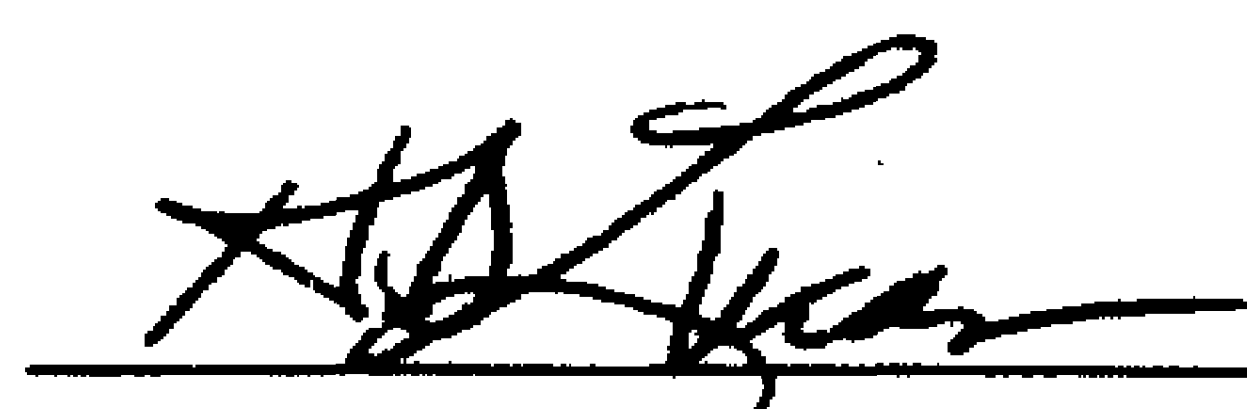
Cust. PO No.: 31-30044

Ship Date: 7/30/92

Trailer No.: T378

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.05</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.510</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.00</u>
% On 200 Mesh		*NDS	<u>7.9</u>
% On Pan		5.0 Max.	<u>2.7</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.028</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202246

PVC BULK TRAILER ANALYSIS

Date 7-30-92 Product 5305 Trailer Number T-378
 Customer Nibco Silo 678, 679 Time 10:50
 Technician RH & JS Order No. 0012443-008

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.05</u>		1. <u>2</u>		1. <u>-</u>	1. <u>W/H: 544</u>	1. <u>-</u>	L = <u>99.49</u>		<u>0/9.9</u>
	2. <u>5</u>		2. <u>5</u>		2. <u>-</u>	2. <u>498</u>	2. <u>-</u>	A = <u>0.85</u>		
MIDDLE	1. <u>510</u>		1. <u>ADU</u>		1. <u>ADU</u>	1. <u>ADU</u>	1. <u>ADU</u>	L = <u>ADU</u>		<u>.028</u>
	2. <u>ADU</u>		2. <u>ADU</u>		2. <u>ADU</u>	2. <u>ADU</u>	2. <u>ADU</u>	A = <u>ADU</u>		
END	1. <u>ADU</u>		1. <u>ADU</u>		1. <u>ADU</u>	1. <u>ADU</u>	1. <u>ADU</u>	L = <u>ADU</u>		
	2. <u>ADU</u>		2. <u>ADU</u>		2. <u>ADU</u>	2. <u>ADU</u>	2. <u>ADU</u>	A = <u>ADU</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>0.53</u>	<u>9.69</u>	<u>13.91</u>	<u>13.37</u>	<u>7.13</u>	<u>3.94</u>	<u>1.33</u>	
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>19.4</u>	<u>27.8</u>	<u>26.8</u>	<u>14.3</u>	<u>7.9</u>	<u>2.7</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 8-2-92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0013692-000

Attention: Sandy Money

Cust. PO No.: 31-30332

Ship Date: 8-2-92

Trailer No.: T-378

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.03</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.511</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>9.1</u>
% On Pan		5.0 Max.	<u>3.1</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.047</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie
Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202248

PVC BULK TRAILER ANALYSIS

Date 7-31-92 Product 5305 Trailer Number T-378
 Customer Nibco Silo 678 Time 1800
 Technician RH & JS Order No. 0013692-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	PH
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.3</u>		1. <u>3</u>		1. <u>-</u>	1. <u>.506</u>	1. <u>-</u>	L = <u>92.66</u>		<u>10.9</u>
	2. <u>6</u>		2. <u>6</u>		2. <u>-</u>	2. <u>Rec. 511</u>	2. <u>-</u>	A = <u>.87</u>		
MIDDLE	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		
END	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>0.21</u>	<u>6.89</u>	<u>12.86</u>	<u>15.29</u>	<u>8.73</u>	<u>4.55</u>	<u>1.54</u>	
% on Mesh	<u>0.0</u>	<u>.4</u>	<u>13.8</u>	<u>25.7</u>	<u>30.4</u>	<u>17.5</u>	<u>9.1</u>	<u>3.1</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 7/28/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0014044-000

Attention: Sandy Money

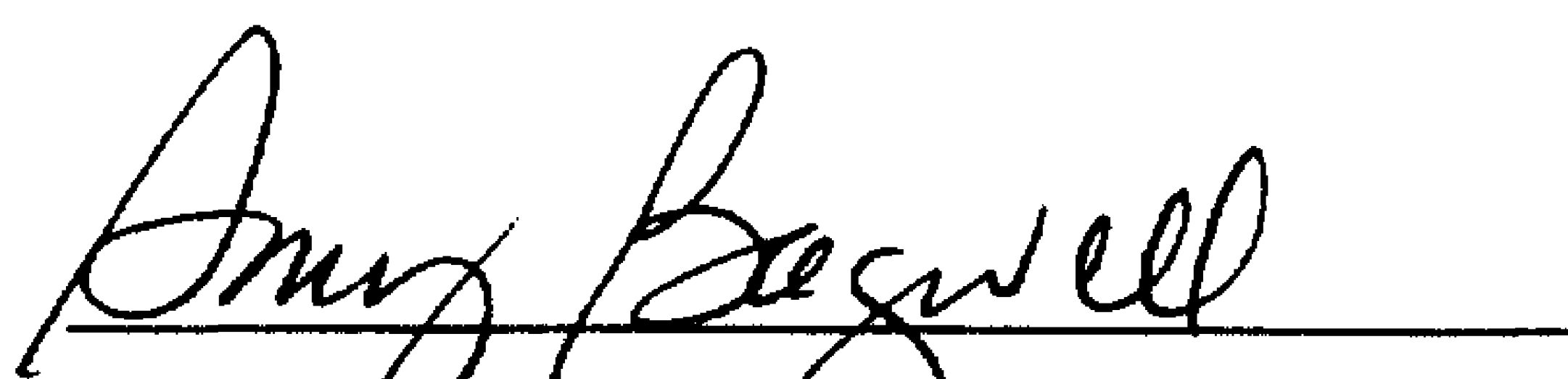
Cust. PO No.: 31-30044

Ship Date: 7/28/92

Trailer No.: T-378

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.11</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.538</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>3.0</u>
% On Pan		5.0 Max.	<u>3.6</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.001</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202250

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 7-26-92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0012443-007

Attention: Sandy Money

Cust. PO No.: 31-30044

Ship Date: 7-26-92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.528</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>4.8</u>
% On Pan		5.0 Max.	<u>3.2</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.505</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Curtis Outlaw

Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202252

PVC BULK TRAILER ANALYSIS

Date 7-26-92 Product 5305 Trailer Number T-377
 Customer nibco Silo 679 Time 0945
 Technician GS + ES Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.08		1.3/9		1.	1.528	1.	L = 99.34		
	2.		2.		2.		2.	A = .78		
MIDDLE	1.		1.		1.		1.	B = 1.98		0/8.5
	2.		2.		2.		2.	L =		
END	1.		1.		1.		1.	A =		
	2.		2.		2.		2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	.36	9.13	14.92	15.09	6.60	2.39	1.62	
% on Mesh	0.0	.7	18.3	29.8	30.0	13.2	4.8	3.2	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 7/22/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0012443-006

Attention: Sandy Money

Cust. PO No.: 31-30044

Ship Date: 7/22/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3 Max.	<u>.05</u>
Bulk Density, gm/cc	ABR-2A	0.510 Min.	<u>.522</u>
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	<u>0.0</u>
% On 200 Mesh		*NDS	<u>5.5</u>
% On Pan		5.0 Max.	<u>2.6</u>
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	<u>.065</u>
Inherent Viscosity	ABR-10	0.71 - 0.76	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

(601) 369-8111

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202254

PVC BULK TRAILER ANALYSIS

Date 7-22-92 Product 5305 Trailer Number T-377
 Customer Nibco Silo 687 Time 1015-1040
 Technician D.T.HPL Order No. 0012443-006

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>05</u>		1. <u>5</u>		1. <u>—</u>	1. <u>.522</u>	1. <u>—</u>	L = <u>99.31</u>		
	2.		2.		2.	2.	2.	A = <u>0.74</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.61</u>		
	2.		2.		2.	2.	2.	L =	<u>0</u> <u>8.8</u>	<u>NO</u> <u>MOAL</u>
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.20</u>	<u>7.62</u>	<u>14.25</u>	<u>16.19</u>	<u>7.66</u>	<u>2.25</u>	<u>1.30</u>	
% on Mesh	<u>0.0</u>	<u>0.4</u>	<u>15.2</u>	<u>28.5</u>	<u>32.5</u>	<u>15.3</u>	<u>55</u>	<u>2.6</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 7/16/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 7/16/92

Product: 5305

VISTA

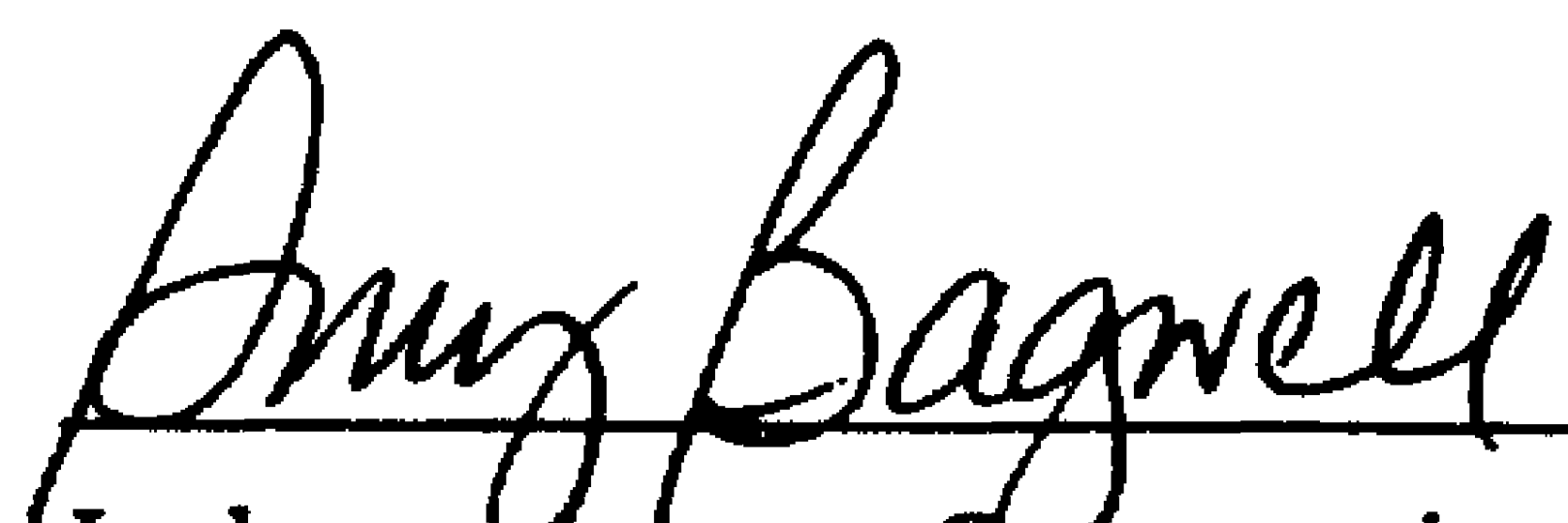
Order No.: 0012443-004

Cust. PO No.: 31-30044

Trailer No.: T-372

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	<u>.514</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>1.2</u>
Pan		<u>3.1</u>
Residual VCM, ppm	ABGC-26	<u>.047</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202256

PVC BULK TRAILER ANALYSIS

A

Date 7-16-92 Product 5305 Trailer Number 7-372
Customer N. beo Silo 679 Time 11:55
Technician M.T Order No. 0012443-004

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.02		1.6		1.	1.	1.	L = 99.80	0/9.4	
			12		—	.514	—	A = 0.41		
	2.		2.		2.	2.	2.	B = 1.85		
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis <u>10</u> Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb										
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										
Tare										
Net Wt.	0.00	0.13	6.28	12.80	16.36	9.05	3.60	1.57		
% on Mesh	0.6	.3	12.6	25.6	33.1	18.1	7.2	3.1		
Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb										
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										
Tare										
Net Wt.										
% on Mesh										

Remarks _____

VAB:0001202257

TRANSMISSION CONFIRMATION REPORT No.=001134

DATE/TIME	JUL 20, 1992 11:10AM
DURATION	28s
TRANSMITTER (FROM)	OMNIFAX 0 1 2 3 4 5 6 7 8 9
RECEIVER (TO)	----- 502 778 0603
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3
RESOLUTION	NORMAL

VAB.0001202258
55-0000349

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: 12 July 92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

Order No.: 0012443003

Attention: Sandy Money

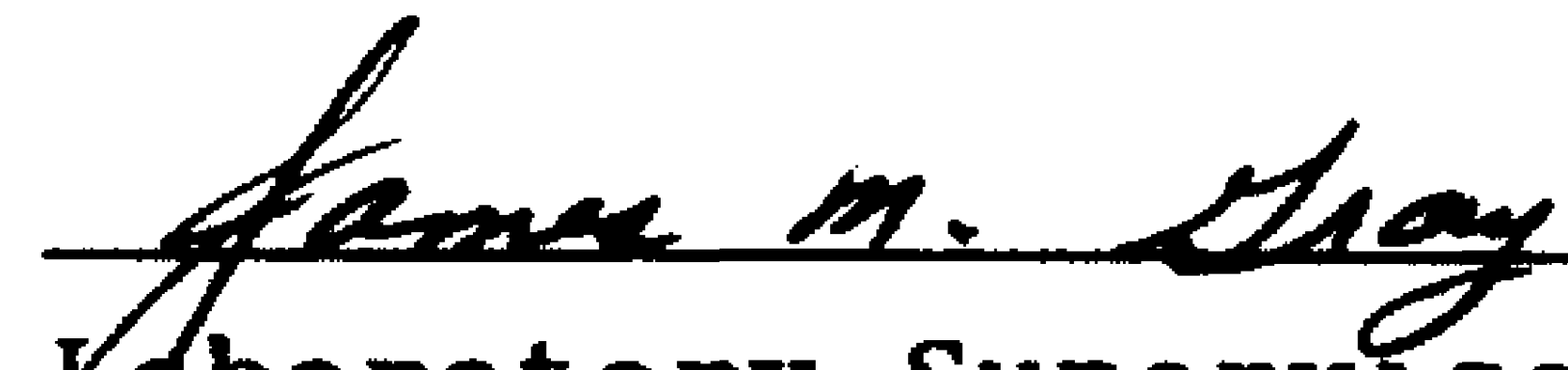
Cust. PO No.: 31-30044

Ship Date: 12 July 92

Trailer No.: T-382

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.517</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>11.4</u>
Pan		<u>4.2</u>
Residual VCM, ppm	ABGC-26	<u>.045</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202259

TRANSMISSION CONFIRMATION REPORT No.=001100

DATE/TIME	JUL 14, 1992 3:19PM
DURATION	28s
TRANSMITTER (FROM)	OMNIFAX 0 1 2 3 4 5 6 7 8 9
RECEIVER (TO)	----- 502 778 0603
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3
RESOLUTION	NORMAL

VAB.0001202260
55-0000349

PVC BULK TRAILER ANALYSIS

Date 7-12-92 Product 5305 Trailer Number T-82
 Customer Nibco Silo 687 Time 1000
 Technician MS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. 13		1. 2/6		1. -	1. .517	1. -	L = 99.77	Flow 8/82 ✓	
	2.		2.		2.	2.	2.	A = 0.47		
								B = 1.73		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	1.18	5.27	10.36	14.84	10.57	5.71	2.11	
% on Mesh	0.0	2.4	10.5	20.7	29.7	21.1	11.4	4.2	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 7/9/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0012443-002

Attention: Sandy Money

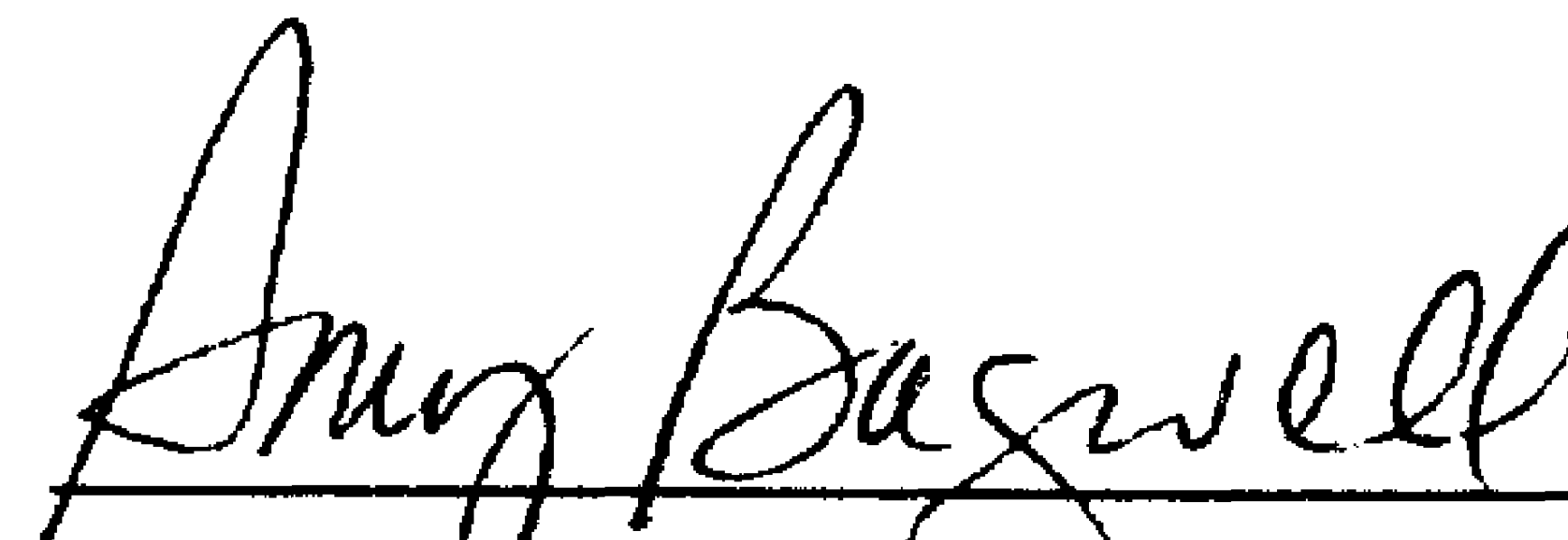
Cust. PO No.: 31-30044

Ship Date: 7/9/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.514</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>8.6</u>
Pan		<u>3.4</u>
Residual VCM, ppm	ABGC-26	<u>.016</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202262

PVC BULK TRAILER ANALYSIS

Date 7-9-92 Product 5305 Trailer Number T-377
 Customer nibco Silo 679 Time 1010
 Technician Co & ES Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>2/5</u>		1. <u>-</u>	1. <u>.514</u>	1. <u>-</u>	L = <u>99.57</u>		
	2.		2.		2.	2.	2.	A = <u>1.37</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.83</u>	<u>-</u>	<u>0/8.5</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.29</u>	<u>7.56</u>	<u>12.79</u>	<u>14.40</u>	<u>8.88</u>	<u>4.30</u>	<u>1.71</u>	
% on Mesh	<u>0.00</u>	<u>0.6</u>	<u>15.1</u>	<u>25.6</u>	<u>28.9</u>	<u>17.8</u>	<u>8.6</u>	<u>3.4</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 7/1/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0012443-000

Attention: Sandy Money

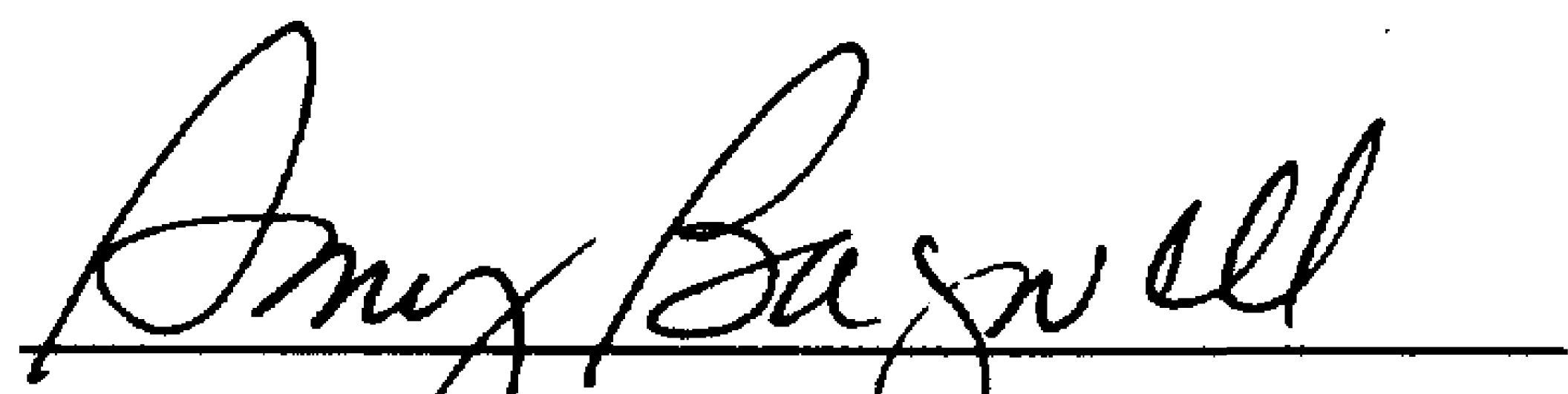
Cust. PO No.: 31-30044

Ship Date: 7/1/92

Trailer No.: T-384

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.511</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>10.0</u>
Pan		<u>2.7</u>
Residual VCM, ppm	ABGC-26	<u>.073</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202264

PVC BULK TRAILER ANALYSIS

Date 7-1-92 Product 5305 Trailer Number T-384
 Customer Nibco Silo 680 Time 1440
 Technician MA Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>.2</u>		1. <u>—</u>	1. <u>.511</u>	1. <u>—</u>	L = <u>99.55</u>	<u>Flow</u> <u>8.3</u>	
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>.62</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.00</u>	<u>.05</u>	<u>6.55</u>	<u>12.00</u>	<u>15.00</u>	<u>10.00</u>	<u>4.99</u>	<u>1.35</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>13.1</u>	<u>24.0</u>	<u>30.1</u>	<u>20.0</u>	<u>10.0</u>	<u>2.7</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

A

CERTIFICATE OF ANALYSIS

Date: 7-5-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 7-5-92

Product: 5305

Order No.: 0012443-001

Cust. PO No.: 31-30044

Trailer No.: T-382

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	<u>.510</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.9</u>
Pan		<u>2.4</u>
Residual VCM, ppm	ABGC-26	<u>.056</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Tallie
Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202266

PVC BULK TRAILER ANALYSIS

Date 7-5-92 Product S 305 Trailer Number T-382
 Customer N: 600 Silo 684 Time 10:15
 Technician M.T Order No. 0012443-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.02</u>		1. <u>6</u>		1. <u>-</u>	1. <u>.510</u>	1. <u>-</u>	L = <u>99.38</u>	<u>0/9.1</u>	
								A = <u>0.52</u>		
	2. <u>10</u>		2. <u>10</u>					B = <u>1.98</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.48</u>	<u>8.86</u>	<u>13.89</u>	<u>14.26</u>	<u>7.77</u>	<u>3.47</u>	<u>1.19</u>	
% on Mesh	<u>00</u>	<u>1.0</u>	<u>17.7</u>	<u>27.8</u>	<u>28.7</u>	<u>15.5</u>	<u>6.9</u>	<u>2.4</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 6/26/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0010841-007

Attention: Sandy Money

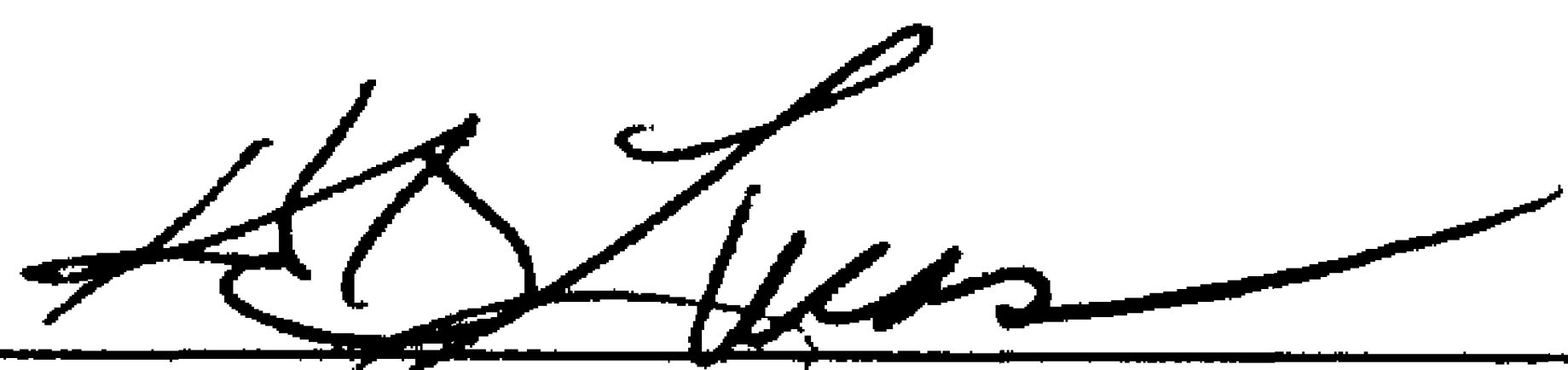
Cust. PO No.: 31-29634

Ship Date: 6/26/92

Trailer No.: T 383

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.515</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>8.9</u>
Pan		<u>3.1</u>
Residual VCM, ppm	ABGC-26	<u>.002</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202268

PVC BULK TRAILER ANALYSIS

Date 6-26-92 Product 5305 Trailer Number T-383
 Customer Nibco Silo 679 Time 0915
 Technician Co + E5 Order No. 0010841-007

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.13		1.5/13		1.—	1.515	1.—	L = 97.08		
	2.		2.		2.	2.	2.	A = 0.26		
								B = 2.46		9.4
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	.13	4.96	11.09	15.43	9.48	4.08	5.00	
% on Mesh	0.0	.3	9.9	22.2	30.4	19.0	8.2	10.0	

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.16	7.20	12.34	14.97	9.28	4.44	1.55	
% on Mesh	0.0	0.3	14.4	24.7	30.0	18.6	8.9	3.1	

Remarks _____

TRANSMISSION CONFIRMATION REPORT No.=001033

DATE/TIME	JUL 1, 1992 3:57PM
DURATION	28s
TRANSMITTER (FROM)	OMNIFAX 0 1 2 3 4 5 6 7 8 9
RECEIVER (TO)	----- 502 778 0603
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3
RESOLUTION	NORMAL

VAB 0001202270
55-0000349

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: 6/22/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0010841-006

Attention: Sandy Money

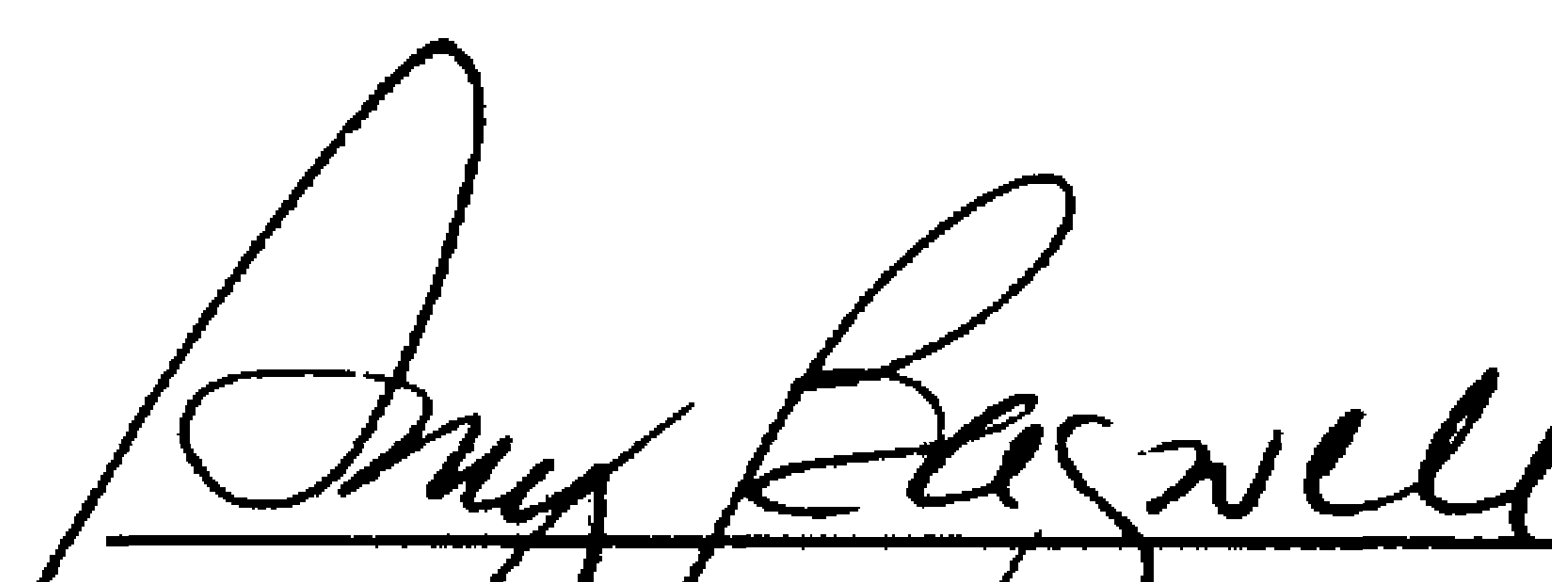
Cust. PO No.: 31-29634

Ship Date: 6/22/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.14</u>
Bulk Density, gm/cc	ABR-2A	<u>.529</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.8</u>
Pan		<u>2.4</u>
Residual VCM, ppm	ABGC-26	<u>.059</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202271

TRANSMISSION CONFIRMATION REPORT No.=001007

DATE/TIME	JUN 29, 1992 9:02AM
DURATION	27s
TRANSMITTER (FROM)	OMNIFAX 0 1 2 3 4 5 6 7 8 9
RECEIVER (TO)	502 778 0603
PAGES XMITTED	01
PAGES ERRORED	
RESULT	OK
COMM. MODE	G3

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: 6/19/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 6/19/92

Product: 5305

VISTA

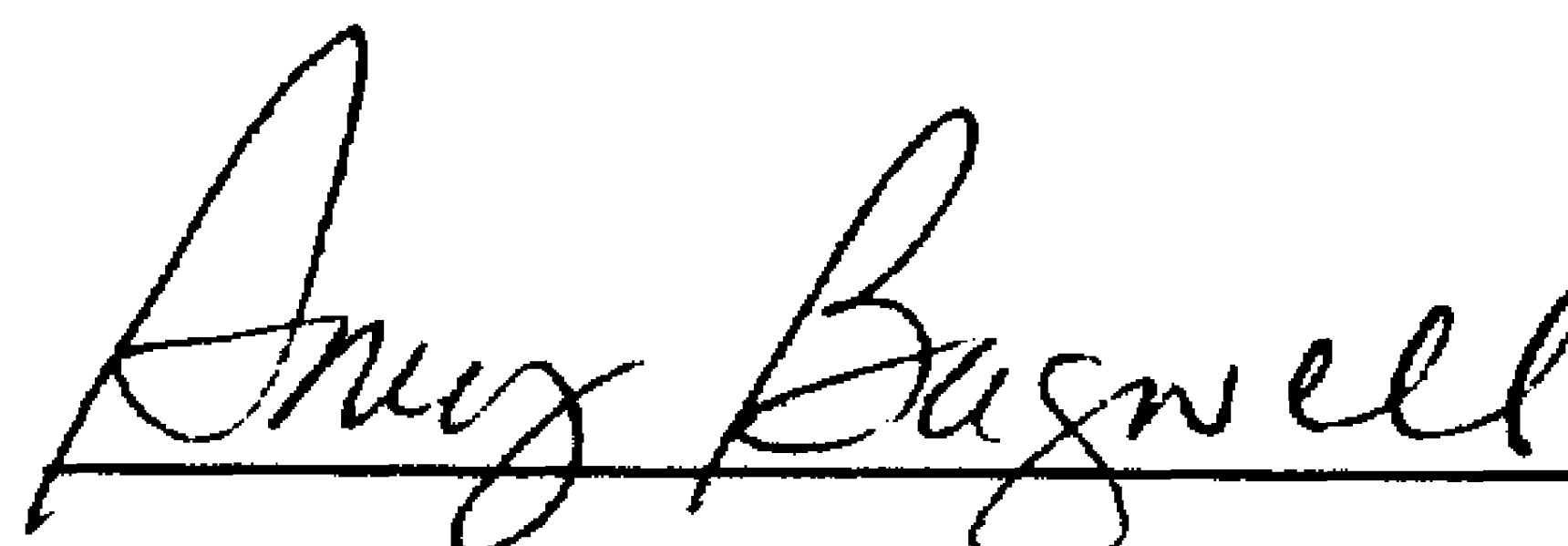
Order No.: 0010841-005

Cust. PO No.: 31-29634

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.03</u>
Bulk Density, gm/cc	ABR-2A	<u>.537</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.5</u>
Pan		<u>4.5</u>
Residual VCM, ppm	ABGC-26	<u>.100</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202274

PVC BULK TRAILER ANALYSIS

Date 6-19-92 Product 5305 Trailer Number T-377
Customer Nibco Silo 107A Time 10:15
Technician M.T. & K.H. Order No. 0010841-005

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. 0.3		16 27		1. —	1. 537	1. —	L = 99.28 A = 0.42	0/ 7.7	.100
	2.		2.		2.	2.	2.	B = 1.96		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A = B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A = B =		

Particle Size Distribution:

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

	Pan							Glassy Part.
Mesh Size	40	60	80	100	120	140	200	
Gross Wt.								
Tare <i>P</i>	<i>00</i>							
Net Wt.	<i>0.0</i>	<i>.18</i>	<i>8.27</i>	<i>13.38</i>	<i>14.39</i>	<i>7.80</i>	<i>3.27</i>	<i>2.25</i>
% on Mesh	<i>0.0</i>	<i>.4</i>	<i>16.5</i>	<i>26.8</i>	<i>29.7</i>	<i>15.6</i>	<i>6.5</i>	<i>4.5</i>

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

[illegible]

Remarks _____

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: 6/16/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0010841-004

Attention: Sandy Money

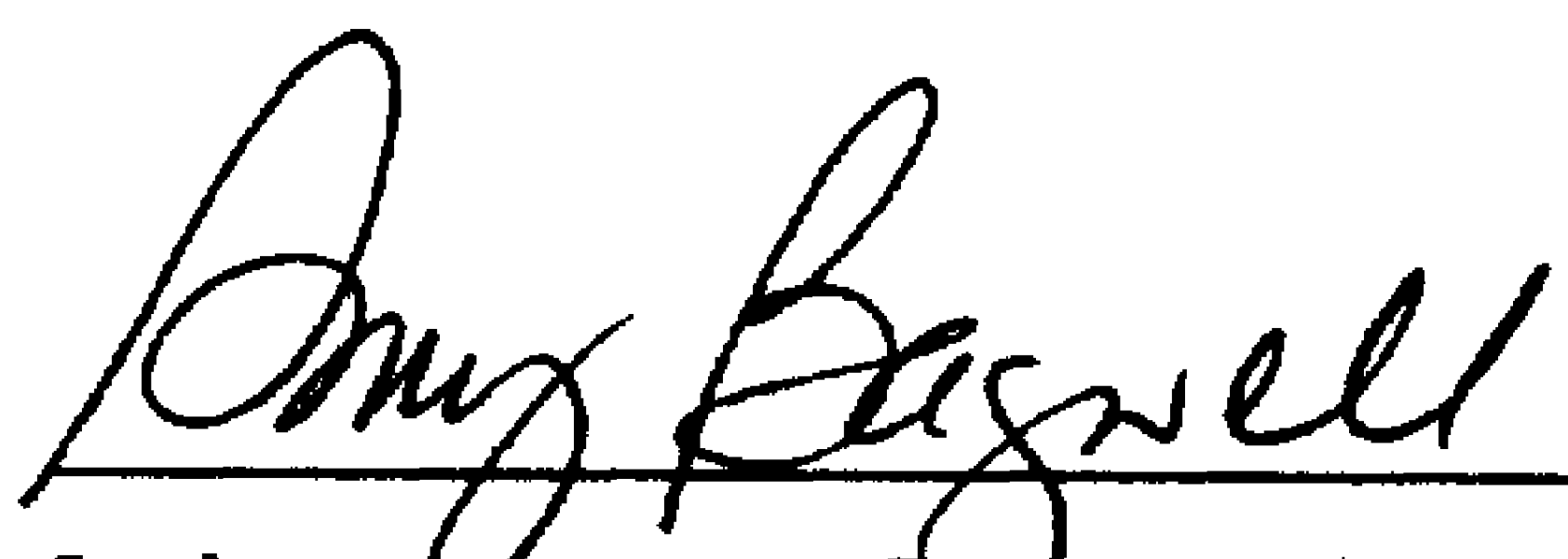
Cust. PO No.: 31-29634

Ship Date: 6/16/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.519</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.8</u>
Pan		<u>2.2</u>
Residual VCM, ppm	ABGC-26	<u>.100</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

FAX To: Ester Saldivar (502) 778-0603
Nibco, Inc.

MAIL To: Nibco, Inc.
Louis Macakanja
500 Simpson Avenue
Elkhart, IN 46515-1167

VAB.0001202276

PVC BULK TRAILER ANALYSIS

Date 6-16-92 Product 5305 Trailer Number T-377
Customer Nibco Silo 678 Time 1300
Technician MS Order No. 0010841-004

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>.5</u> <u>9</u>		1. <u>-</u>	1. <u>.519</u>	1. <u>-</u>	L = <u>99.90</u> A = <u>.50</u> B = <u>1.82</u>	<u>Flow</u> <u>of</u> <u>8.0</u> <u>.100</u>	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.22</u>	<u>8.89</u>	<u>14.59</u>	<u>14.76</u>	<u>7.58</u>	<u>2.88</u>	<u>1.09</u>	
% on Mesh	<u>0.0</u>	<u>.4</u>	<u>17.8</u>	<u>29.2</u>	<u>29.4</u>	<u>15.2</u>	<u>5.8</u>	<u>2.2</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: *6-9-92*

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: *6-9-92*

Product: 5305

Order No.: *0010841-002*

Cust. PO No.: *31-29634*

Trailer No.: *T-384*

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.03</u>
Bulk Density, gm/cc	ABR-2A	<u>.570</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>5.6</u>
Pan		<u>2.0</u>
Residual VCM, ppm	ABGC-26	<u>.065</u>
Inherent Viscosity	ABR-10	<u> </u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

David Thompson
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202278

PVC BULK TRAILER ANALYSIS

Date 6/9/92 Product 5305 Trailer Number T384
 Customer NIBCO Silo 683 Time 1700-1740
 Technician ADZ/DT Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.03		1.6		1. -	1. .510	1. -	L = 99.25		
	2.		2.		2.	2.	2.	A = 0.43		
MIDDLE	1.		1.		1.	1.	1.	L =	0/9.8	NO MATH
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.31	8.34	19.23	15.32	7.80	2.82	0.98	
% on Mesh	0.0	0.6	16.7	28.5	31.0	15.6	5.6	2.0	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: 6/5/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 6/5/92

Product: 5305

VISTA

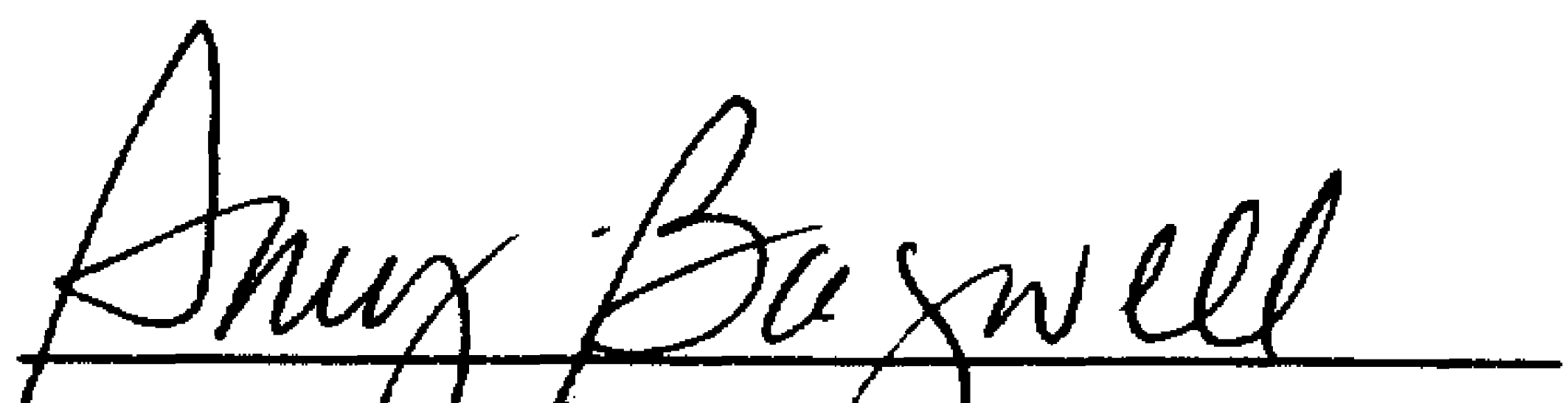
Order No.: 0010841-001

Cust. PO No.: 31-29634

Trailer No.: T-372

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.07</u>
Bulk Density, gm/cc	ABR-2A	<u>.514</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>8.0</u>
Pan		<u>3.2</u>
Residual VCM, ppm	ABGC-26	<u>.081</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202280

PVC BULK TRAILER ANALYSIS

Date 6-5-92 Product 5305 Trailer Number T-327
 Customer NjBCo Silo 683 Time 12:30
 Technician RH Order No. 6010841-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.07</u>		1. <u>.3</u>		1. <u>-</u>	1. <u>.514</u>	1. <u>-</u>	L = <u>99.25</u>		<u>1</u> <u>10.0</u>
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>0.41</u>		
MIDDLE	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
END	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.24</u>	<u>7.00</u>	<u>12.47</u>	<u>15.41</u>	<u>9.18</u>	<u>3.99</u>	<u>1.60</u>	
% on Mesh	<u>0.0</u>	<u>.5</u>	<u>14.0</u>	<u>24.9</u>	<u>31.0</u>	<u>18.4</u>	<u>8.0</u>	<u>3.2</u>	

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

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

Remarks

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: 6/1/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0010841-000

Attention: Sandy Money

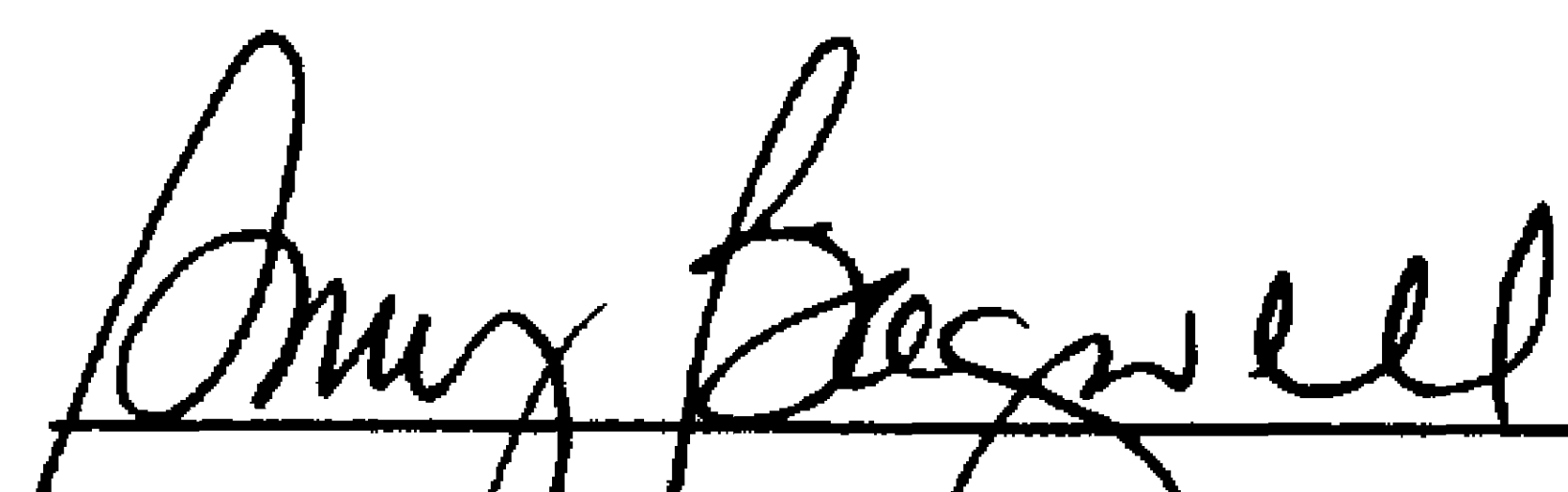
Cust. PO No.: 31-29634

Ship Date: 6/1/92

Trailer No.: T-381

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	ABR-2A	<u>.528</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>7.8</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.074</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202282

PVC BULK TRAILER ANALYSIS

Date 6/1/92 Product 5305 Trailer Number 1381
Customer NIBCO Silo 688 Time 1130
Technician TE-HA Order No. 0010841-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>4</u>		1. <u>—</u>	1. <u>1.528</u>	1. <u>—</u>	L = <u>99.99</u>		<u>flow</u> <u>0.75</u>
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.44</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		

Particle Size Distribution: NO METAL

Screen Analysis	<u>10</u>	Min	On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb								
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.		
Gross Wt.											
Tare											
Net Wt.	<u>0.00</u>	<u>0.50</u>	<u>8.51</u>	<u>12.67</u>	<u>14.32</u>	<u>8.80</u>	<u>3.89</u>	<u>1.29</u>			
% on Mesh	<u>0.0</u>	<u>1.0</u>	<u>17.0</u>	<u>25.3</u>	<u>28.7</u>	<u>17.6</u>	<u>7.8</u>	<u>2.6</u>			

Screen Analysis		Min.	On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb								
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.		
Gross Wt.											
Tare											
Net Wt.											
% on Mesh											

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: 5/28/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0009473-008

Attention: Sandy Money

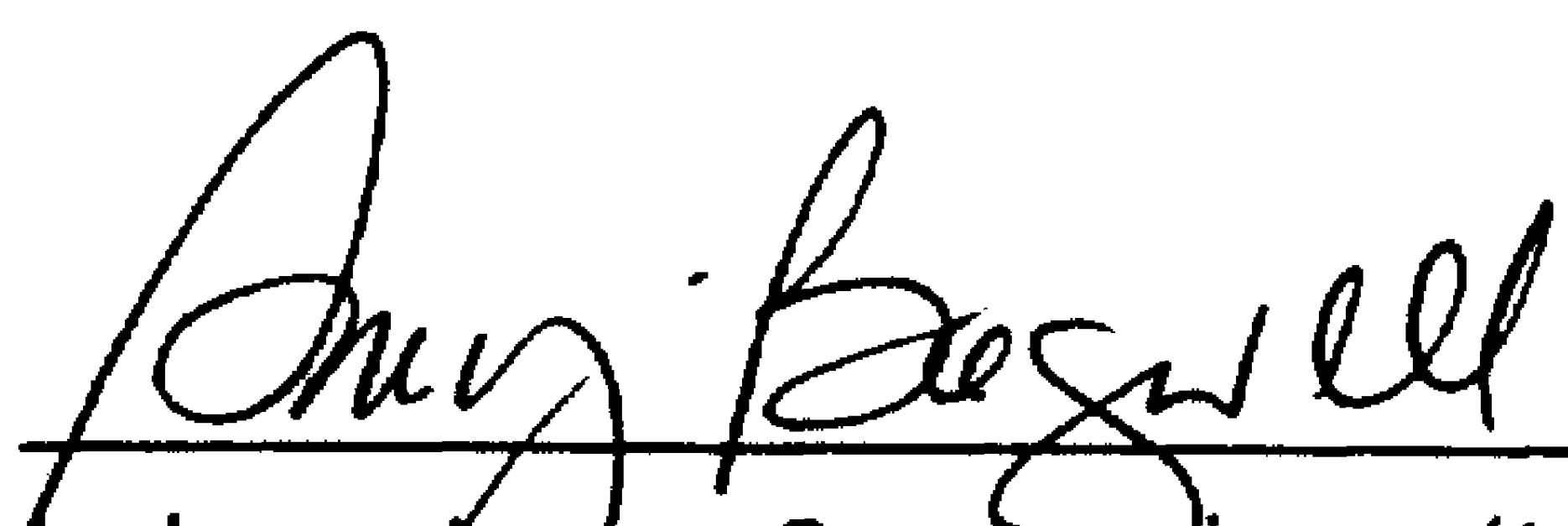
Cust. PO No.: 31-29300

Ship Date: 5/28/92

Trailer No.: T-381

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.530</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>8.6</u>
Pan		<u>3.3</u>
Residual VCM, ppm	ABGC-26	<u>.106</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202284

PVC BULK TRAILER ANALYSIS

Date 5-28-92 Product 5305 Trailer Number T-381
 Customer Nibco Silo 672-688 Time 1340
 Technician COVJS Order No. 0009473-008

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>08</u>		1. <u>14</u>		1. <u>-</u>	1. <u>.530</u>	1. <u>-</u>	L = <u>99.67</u>	<u>-</u>	<u>Flow 0/8.2</u>
	2.		2.		2.	2.	2.	A = <u>0.39</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.10</u>	<u>5.90</u>	<u>12.47</u>	<u>16.04</u>	<u>9.76</u>	<u>4.28</u>	<u>1.63</u>	
% on Mesh	<u>00</u>	<u>.2</u>	<u>11.8</u>	<u>24.9</u>	<u>31.7</u>	<u>19.5</u>	<u>8.6</u>	<u>3.3</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 5/22/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0009473-007

Attention: Sandy Money

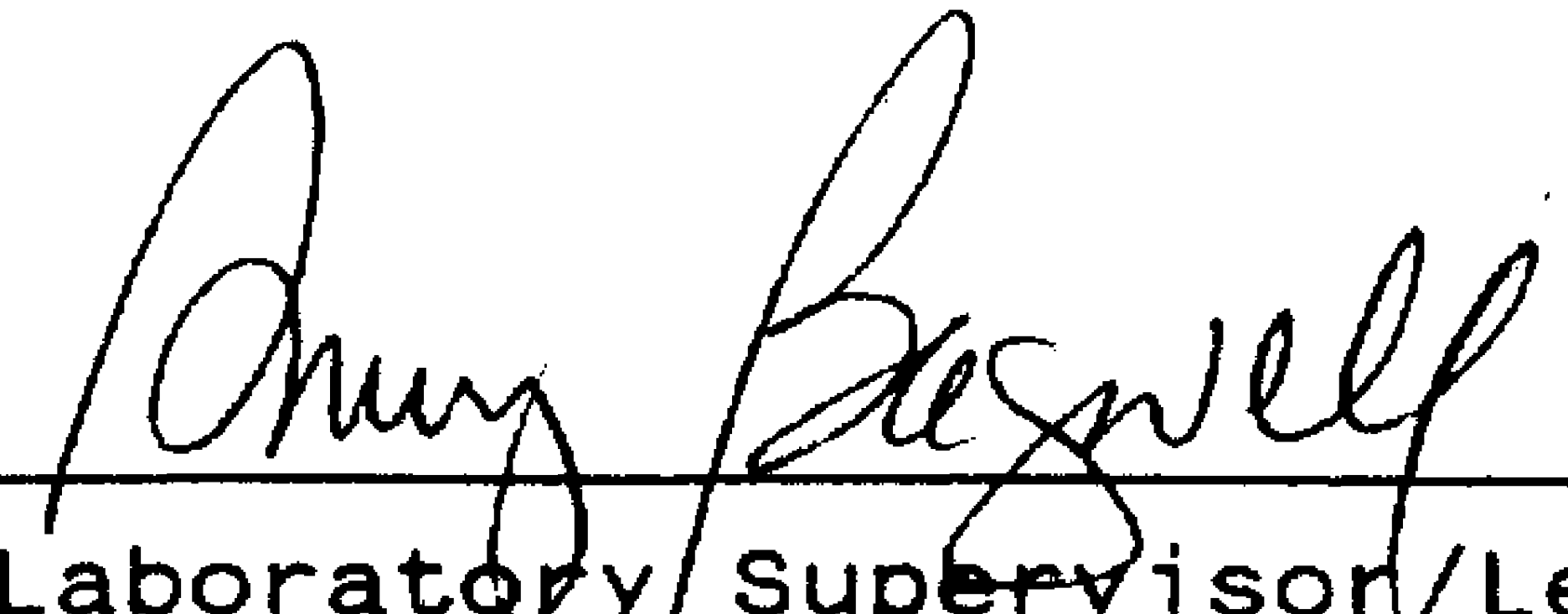
Cust. PO No.: 31-29300

Ship Date: 5/22/92

Trailer No.: T-371

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.18</u>
Bulk Density, gm/cc	ABR-2A	<u>.525</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.7</u>
Pan		<u>4.0</u>
Residual VCM, ppm	ABGC-26	<u>.371</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202286

PVC BULK TRAILER ANALYSIS

Date 5-22-92 Product 5305 Trailer Number T-371
 Customer nibco Silo 679 Time 0615
 Technician CS & ES Order No. 0009473-007

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>18</u>		1. <u>2/7</u>		1.	1. <u>.525</u>	1. <u>-</u>	L = <u>98.90</u>		
	2.		2.		2.	2.	2.	A = <u>.49</u>		
								B = <u>1.77</u>		<u>9/8.0</u>
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.61</u>	<u>9.57</u>	<u>13.91</u>	<u>13.87</u>	<u>7.13</u>	<u>2.85</u>	<u>2.02</u>	
% on Mesh	<u>0.00</u>	<u>1.2</u>	<u>19.1</u>	<u>27.8</u>	<u>27.9</u>	<u>14.3</u>	<u>5.7</u>	<u>4.0</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 5/15/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 5/15/92

Product: 5305

Order No.: 0009473-005

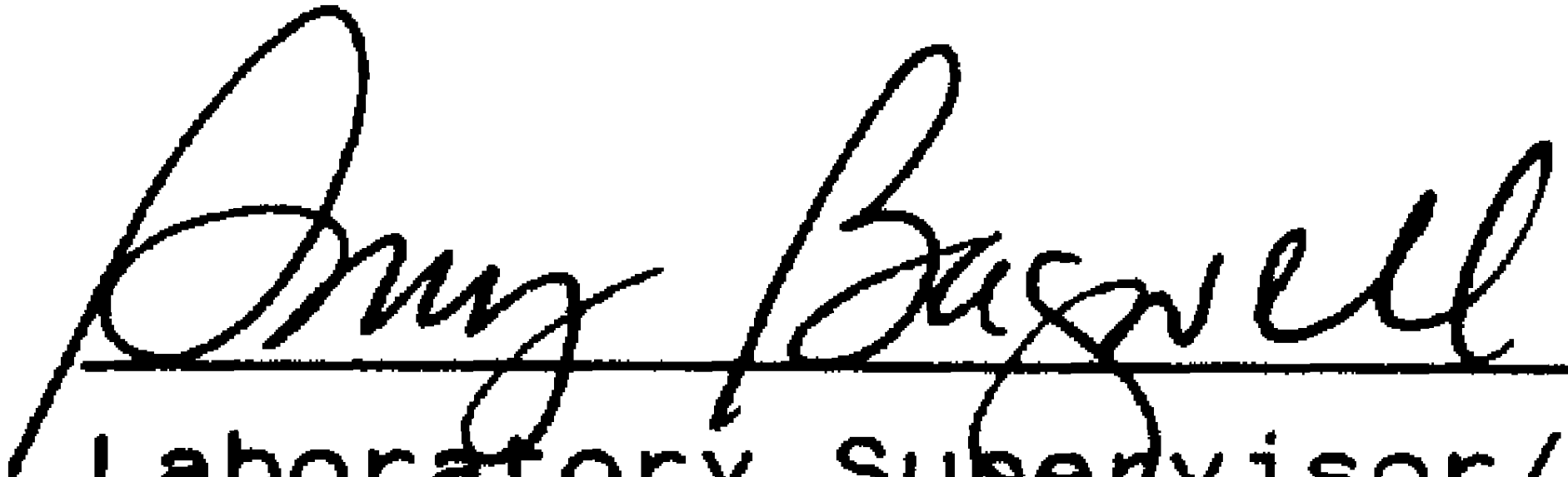
Cust. PO No.: 31-29300

Trailer No.: T-377

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.524</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>9.0</u>
Pan		<u>2.0</u>
Residual VCM, ppm	ABGC-26	<u>.018</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202288

PVC BULK TRAILER ANALYSIS

Date 5-15-92 Product 5305 Trailer Number 7-377
 Customer Mico Silo 679 Time 1505
 Technician CO + ES Order No. 0009473-005

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.			Resample						
Tare									
Net Wt.	0.00	0.05	5.52	12.46	16.31	10.39	4.50	1.00	
% on Mesh	0.0	0.1	11.0	24.9	32.2	20.8	9.0	2.0	

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

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

Remarks _____

PVC BULK TRAILER ANALYSIS

Date 5-15-92 Product 5305 Trailer Number T-377
Customer Nibco Silo 679 Time 1100
Technician Co + Ed Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.08</u>		1. <u>2/9</u>		1. <u>—</u>	1. <u>.506</u>	1. <u>—</u>	L = <u>99.22</u>		<u>Flow</u> <u>8.6</u>
	2. <u>Resample</u>		2. <u>Resample</u>		2. <u>Resample</u>	2. <u>.524</u>	2. <u>Resample</u>	A = <u>0.57</u>		
MIDDLE	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		
END	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	B = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	L = <u> </u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tare	_____	_____	_____	_____	_____	_____	_____	_____	_____
Net Wt.	<u>0.00</u>	<u>0.08</u>	<u>3.84</u>	<u>10.36</u>	<u>15.30</u>	<u>11.06</u>	<u>5.91</u>	<u>4.14</u>	_____
% on Mesh	<u>0.00</u>	<u>0.2</u>	<u>7.7</u>	<u>20.7</u>	<u>29.2</u>	<u>22.1</u>	<u>11.8</u>	<u>8.3</u>	_____

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tare	_____	_____	_____	_____	_____	_____	_____	_____	_____
Net Wt.	<u>0.00</u>	<u>.04</u>	<u>4.02</u>	<u>10.42</u>	<u>15.16</u>	<u>11.18</u>	<u>6.05</u>	<u>3.33</u>	_____
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>8.0</u>	<u>20.8</u>	<u>29.9</u>	<u>22.4</u>	<u>12.1</u>	<u>6.7</u>	_____

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 5/12/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 5/12/92

Product: 5305

Order No.: 0009473-004

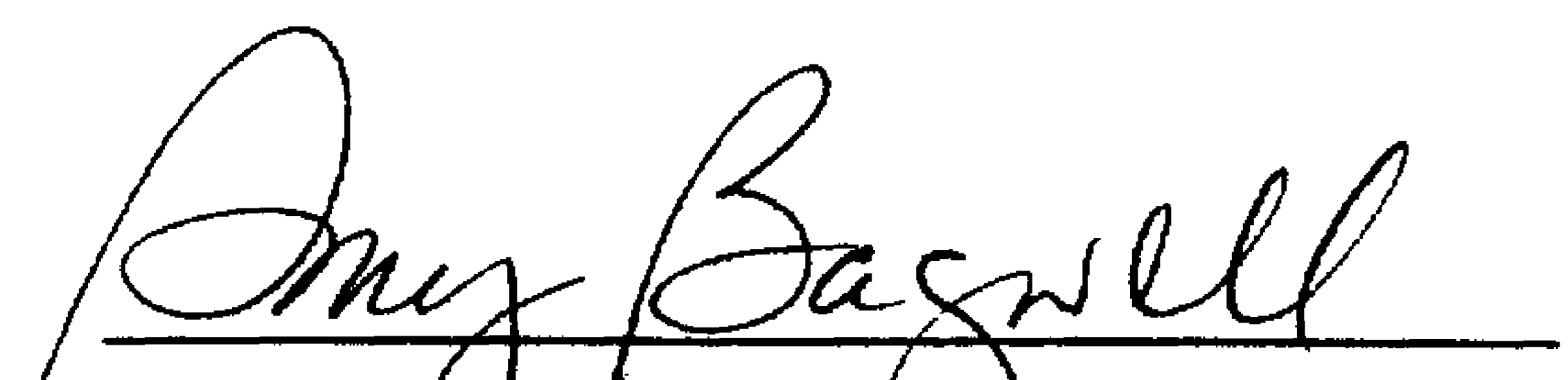
Cust. PO No.: 31-29300

Trailer No.: T-381

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	ABR-2A	<u>.518</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>12.3</u>
Pan		<u>3.7</u>
Residual VCM, ppm	ABGC-26	<u>.161</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202291

PVC BULK TRAILER ANALYSIS

A

Date 5-12-52 Product 5305 Trailer Number T-381
 Customer Nibco Silo 683 + 684 Time 1230 - 1305
 Technician J.T. + M.B. Order No. 000 9473-004

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>.5</u>		1. <u>-</u>	1. <u>.518</u>	1. <u>-</u>	L = <u>99.96</u>		
	2.		2. <u>7</u>		2.	2.	2.	A = <u>0.34</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.44</u>		
	2.		2.		2.	2.	2.	L =	<u>9.4</u>	<u>No Metal</u>
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.05</u>	<u>4.31</u>	<u>10.96</u>	<u>15.70</u>	<u>10.93</u>	<u>6.13</u>	<u>1.85</u>	
% on Mesh	<u>0.0</u>	<u>0.1</u>	<u>8.6</u>	<u>21.9</u>	<u>31.5</u>	<u>21.9</u>	<u>12.3</u>	<u>3.7</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 5/7/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0009473-002

Attention: Sandy Money

Cust. PO No.: —

Ship Date: 5/7/92

Trailer No.: T378

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.01</u>
Bulk Density, gm/cc	ABR-2A	<u>.516</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>15.1</u>
Pan		<u>4.8</u>
Residual VCM, ppm	ABGC-26	<u>.094</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202293

PVC BULK TRAILER ANALYSIS

A

Date 5-7-92 Product 5305 Trailer Number T-378
 Customer Nibco Silo 679 Time 14.45
 Technician M.T Order No. 0009473-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.01</u>		1. <u>6</u>		1. <u>-</u>	1. <u>.516</u>	1. <u>-</u>	L = <u>98.94</u>	<u>0</u> <u>9.3</u>	<u>.727</u>
	2. <u>0.01</u>		2. <u>8</u>					A = <u>0.38</u>		
MIDDLE	1. <u>0.01</u>		1. <u>0.01</u>		1. <u>0.01</u>	1. <u>0.01</u>	1. <u>0.01</u>	L = <u>0.01</u>		
	2. <u>0.01</u>		2. <u>0.01</u>		2. <u>0.01</u>	2. <u>0.01</u>	2. <u>0.01</u>	A = <u>0.01</u>		
END	1. <u>0.01</u>		1. <u>0.01</u>		1. <u>0.01</u>	1. <u>0.01</u>	1. <u>0.01</u>	L = <u>0.01</u>		
	2. <u>0.01</u>		2. <u>0.01</u>		2. <u>0.01</u>	2. <u>0.01</u>	2. <u>0.01</u>	A = <u>0.01</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>0.0</u>	<u>3.73</u>	<u>10.09</u>	<u>14.61</u>	<u>11.26</u>	<u>7.56</u>	<u>2.38</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>7.5</u>	<u>20.2</u>	<u>29.9</u>	<u>22.5</u>	<u>15.1</u>	<u>4.8</u>	

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

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

Remarks _____

VAB.0001202294

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 5/1/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 5/1/92

Product: 5305

Order No.: 0009473-000

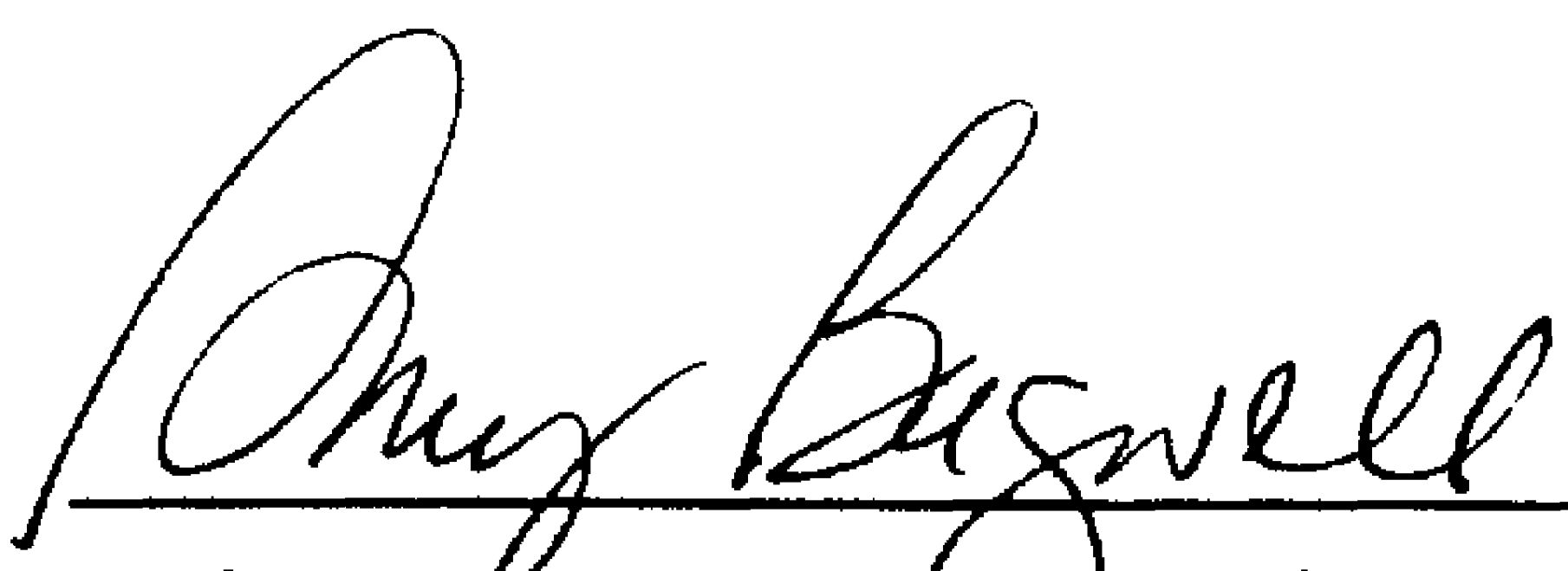
Cust. PO No.: 31-29300

Trailer No.: T-384

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	ABR-2A	<u>.531</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>9.7</u>
Pan		<u>2.9</u>
Residual VCM, ppm	ABGC-26	<u>.181</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202295

PVC BULK TRAILER ANALYSIS

A

Date 5-1-92 Product 5305 Trailer Number T-384
 Customer Nibco Silo 683 Time 11:30
 Technician Co & Ed Order No. 0009473-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>2/4</u>		1. <u>-</u>	1. <u>.531</u>	1. <u>-</u>	L = <u>99.41</u>		Flow 0/9.5
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>0.31</u>		
								B = <u>1.23</u>		
MIDDLE	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
								B = <u>.....</u>		
END	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
								B = <u>.....</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.17</u>	<u>6.07</u>	<u>12.66</u>	<u>15.28</u>	<u>9.44</u>	<u>4.86</u>	<u>1.45</u>	
% on Mesh	<u>0.00</u>	<u>0.3</u>	<u>12.1</u>	<u>25.3</u>	<u>30.8</u>	<u>18.9</u>	<u>9.7</u>	<u>2.9</u>	

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

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

Remarks _____

VAB.0001202296

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: 4/28/92

Product: 5305

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Order No.: 0008243-007

Attention: Sandy Money

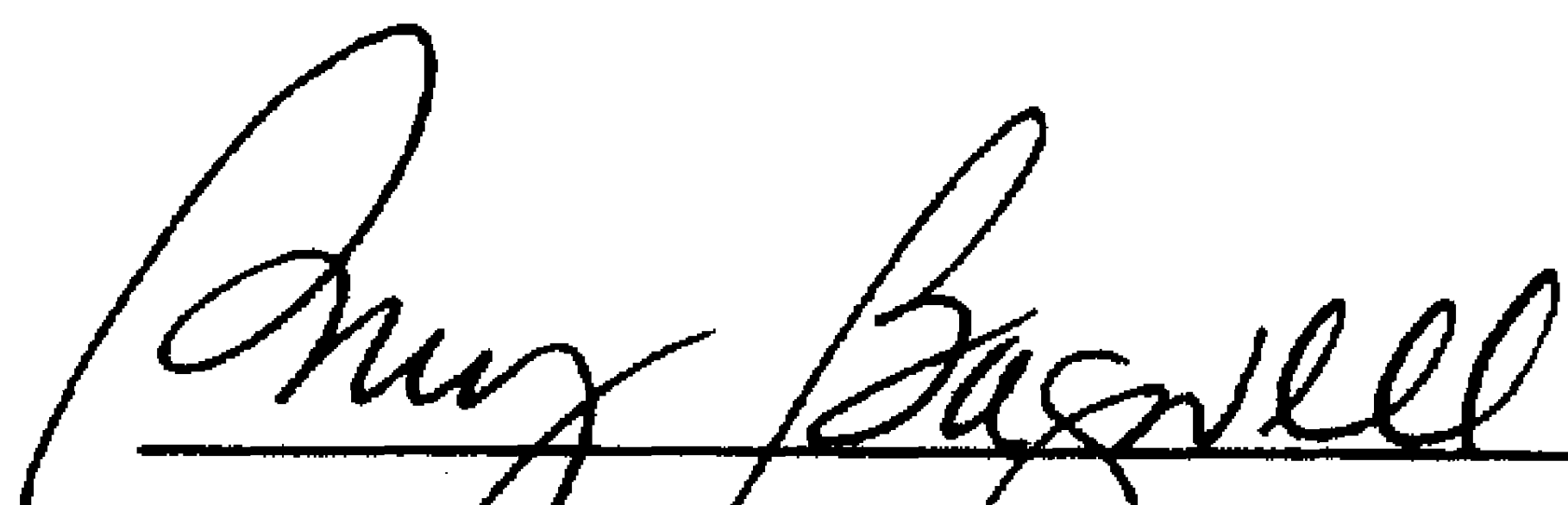
Cust. PO No.: 31-29009

Ship Date: 4/28/92

Trailer No.: T-378

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Bulk Density, gm/cc	ABR-2A	<u>.525</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>11.2</u>
Pan		<u>3.2</u>
Residual VCM, ppm	ABGC-26	<u>.004</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202297

PVC BULK TRAILER ANALYSIS

A

Date 4-28-92 Product 5305 Trailer Number T-378
 Customer Nibco Silo 679 Time 1005-1045
 Technician E.T. + HDL Order No. 0008243-007

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.05</u>		1. <u>7</u>		1. <u>—</u>	1. <u>.525</u>	1. <u>—</u>	L = <u>99.90</u>		
	2.		2.		2.	2.	2.	A = <u>0.37</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.48</u>		
	2.		2.		2.	2.	2.	L =	<u>0</u> <u>9.0</u>	<u>NO</u> <u>THICK</u>
								A =		
END								B =		
	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.08</u>	<u>4.91</u>	<u>11.50</u>	<u>15.83</u>	<u>10.47</u>	<u>5.58</u>	<u>1.58</u>	
% on Mesh	<u>0.0</u>	<u>0.2</u>	<u>9.8</u>	<u>23.0</u>	<u>36.7</u>	<u>20.9</u>	<u>11.2</u>	<u>3.2</u>	

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

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

Remarks _____

VAB.0001202298

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: 4-10-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 4-10-92

Product: 5305

VISTA

Order No.: 0008243-003

Cust. PO No.: 31-29009

Trailer No.: T-381

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	<u>.510</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>19.1</u>
Pan		<u>4.7</u>
Residual VCM, ppm	ABGC-26	<u>.013</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Jallie
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202299

PVC BULK TRAILER ANALYSIS

A

Date 4-10-92 Product 5305 Trailer Number T-381
 Customer Nico Silo 683 Time 10:00
 Technician M.T Order No. 0008243-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>02</u>		1. <u>3</u>		1. <u>—</u>	1. <u>.510</u>	1. <u>—</u>	L = <u>99.64</u>	<u>0/10.4</u>	
	2. <u>—</u>		2. <u>8</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.35</u>		
								B = <u>1.47</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>0.0</u>	<u>1.66</u>	<u>7.76</u>	<u>14.70</u>	<u>13.98</u>	<u>9.53</u>	<u>2.35</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>3.3</u>	<u>15.5</u>	<u>29.4</u>	<u>28.0</u>	<u>19.1</u>	<u>4.7</u>	

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

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

Remarks _____

VAB.0001202300

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: *April 7, 1992*

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: *0008243-002*

Attention: Sandy Money

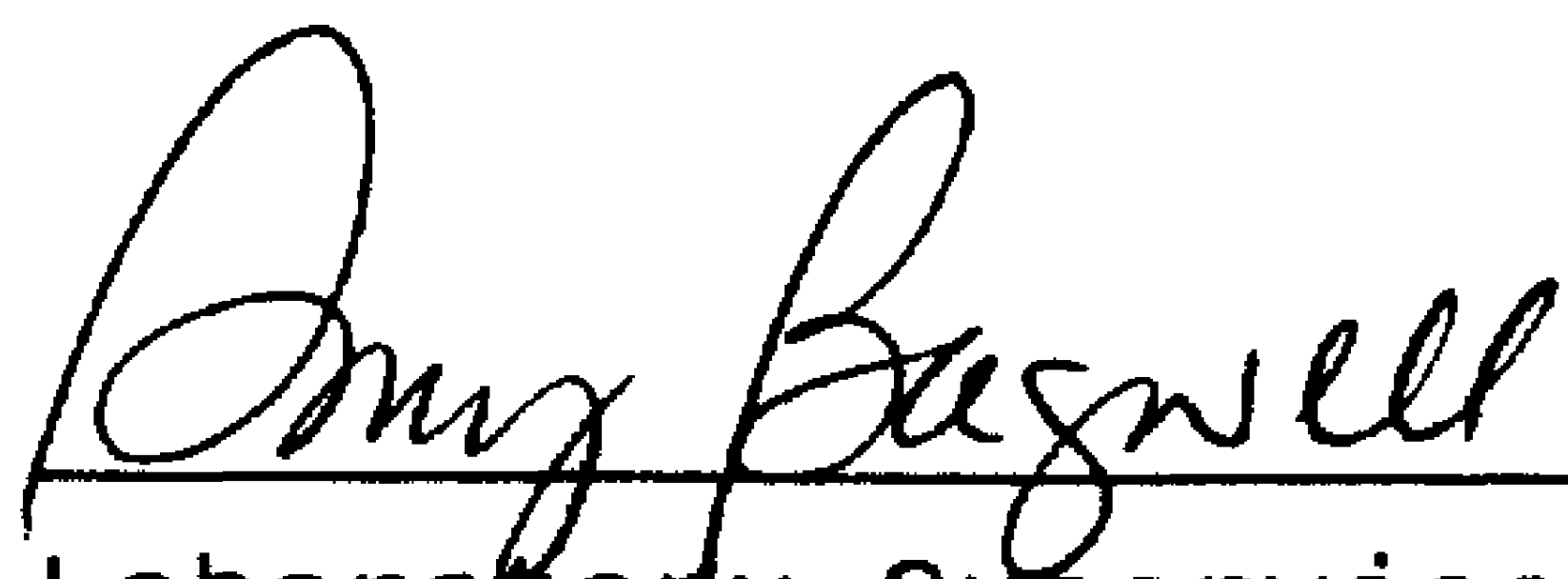
Cust. PO No.: *31-29009*

Ship Date: *April 7, 1992*

Trailer No.: *T-371*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.13</u>
Bulk Density, gm/cc	ABR-2A	<u>.527</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>16.5</u>
Pan		<u>4.3</u>
Residual VCM, ppm	ABGC-26	<u>.203</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202301

PVC BULK TRAILER ANALYSIS

A

Date 4-7-92 Product 5305 Trailer Number T-371
 Customer Nibco Silo 678 Time 1345
 Technician MATE Order No. 000 8243-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>4/6</u>		1. <u>—</u>	1. <u>.527</u>	1. <u>—</u>	L = <u>99.77</u>	<u>Flow</u> <u>8/7.9</u>	
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>.03</u>		
								B = <u>1.29</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.01</u>	<u>3.41</u>	<u>9.20</u>	<u>14.16</u>	<u>12.80</u>	<u>8.25</u>	<u>2.15</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>6.8</u>	<u>18.4</u>	<u>28.4</u>	<u>25.6</u>	<u>16.5</u>	<u>4.3</u>	

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

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

Remarks _____

VAB.0001202302

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: 4-3-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 4-3-92

Product: 5305

VISTA

Order No.: 0008243-001

Cust. PO No.: 31-29009

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.526</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>10.7</u>
Pan		<u>3.4</u>
Residual VCM, ppm	ABGC-26	<u>.113</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Melvin Guller
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202303

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3/31/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0008243-000

Attention: Sandy Money

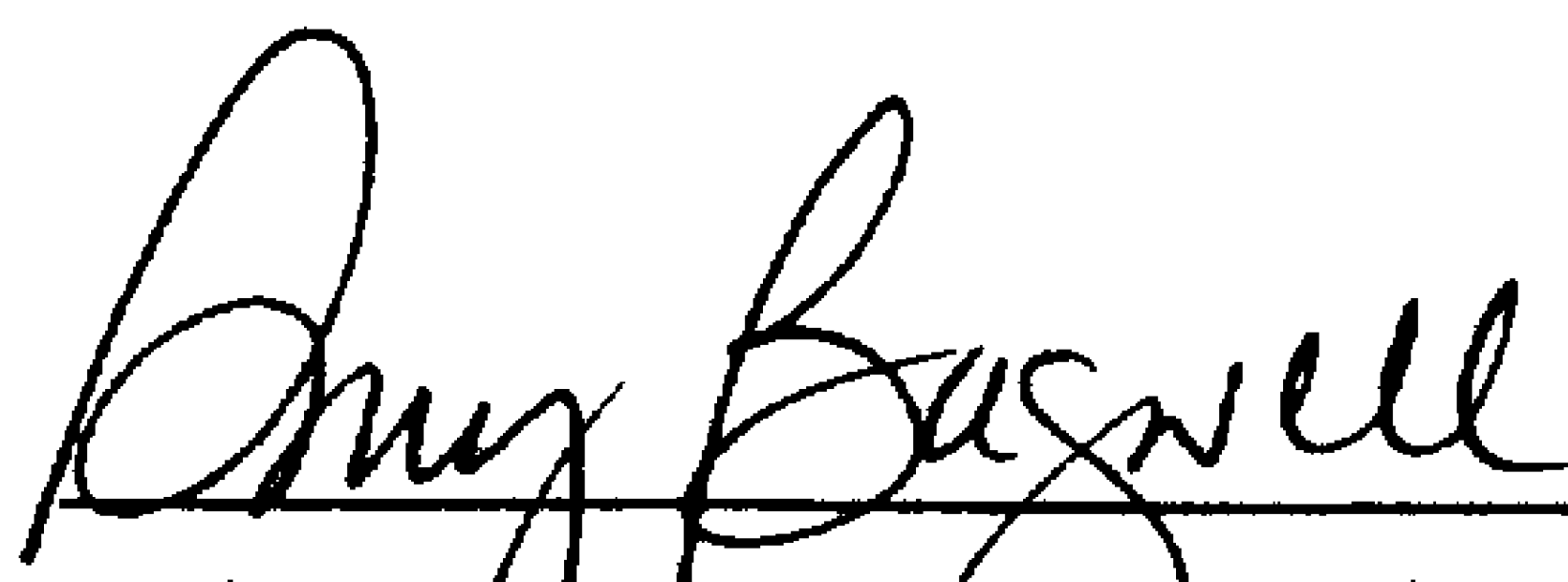
Cust. PO No.: 31-29009

Ship Date: 3/31/92

Trailer No.: T-381

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Bulk Density, gm/cc	ABR-2A	<u>.518</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.7</u>
Pan		<u>3.4</u>
Residual VCM, ppm	ABGC-26	<u>.091</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202305

PVC BULK TRAILER ANALYSIS

A

Date 3-31-92 Product 5305 Trailer Number 7-381
 Customer Nibco Silo 678 Time 1000-1035
 Technician D.T. & H.L. Order No. 0008243-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.05		3/3		—	518	—	L = 100.45 A = 0.00 B = 1.49		
	2.		2.		2.		2.			
MIDDLE	1.		1.		1.		1.	L = A = B =	0 8.7	No Metal
	2.		2.		2.		2.			
END	1.		1.		1.		1.	L = A = B =		
	2.		2.		2.		2.			

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.02	6.28	14.64	15.76	7.94	3.34	1.70	
% on Mesh	0.0	0.0	12.6	29.3	32.1	15.9	6.7	3.4	

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

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

Remarks _____

VAB.0001202306

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3/27/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0007374-007

Attention: Sandy Money

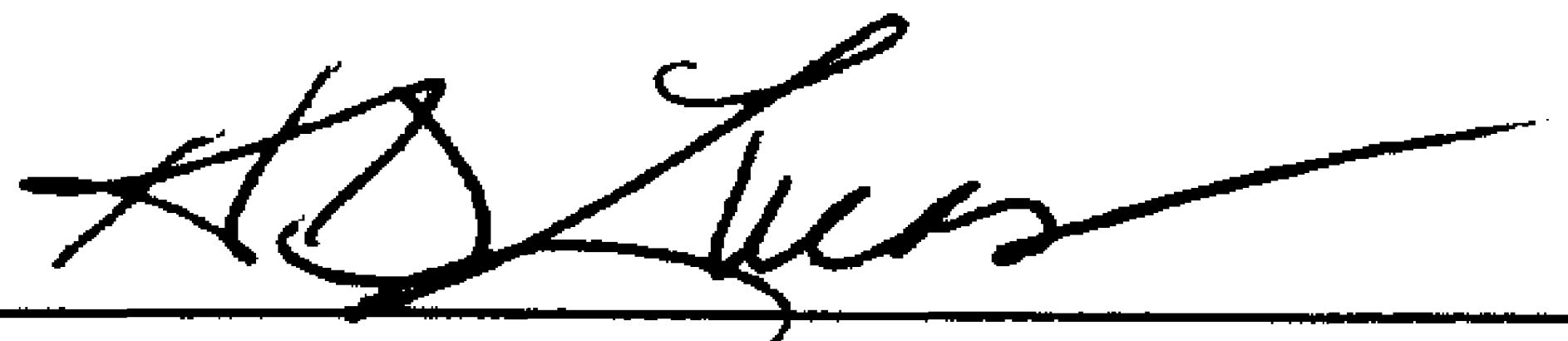
Cust. PO No.: 31-28779

Ship Date: 3/27/92

Trailer No.: T381

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	<u>.512</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>12.9</u>
Pan		<u>4.4</u>
Residual VCM, ppm	ABGC-26	<u>.164</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202307

PVC BULK TRAILER ANALYSIS

A

Date 3-27-92 Product 5305 Trailer Number T-381
 Customer Nibco Silo 683 Time 0845
 Technician M.T Order No. 0007374-007

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.02		1.5		1.	1.	1.	L = 99.10	0/12.8	
			8		-	.487	-	A = -0.09		
	2.		2.		2.	2.	2.	B = 1.09		
						Res. 512				
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare <u>P</u>									
Net Wt.	0.0	.05	3.30	11.60	15.72	10.56	6.45	2.22	
% on Mesh	0.0	.1	6.6	23.2	31.7	21.1	12.9	4.4	

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

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

Remarks _____

VAB:0001202308

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3/24/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0007374-006

Attention: Sandy Money

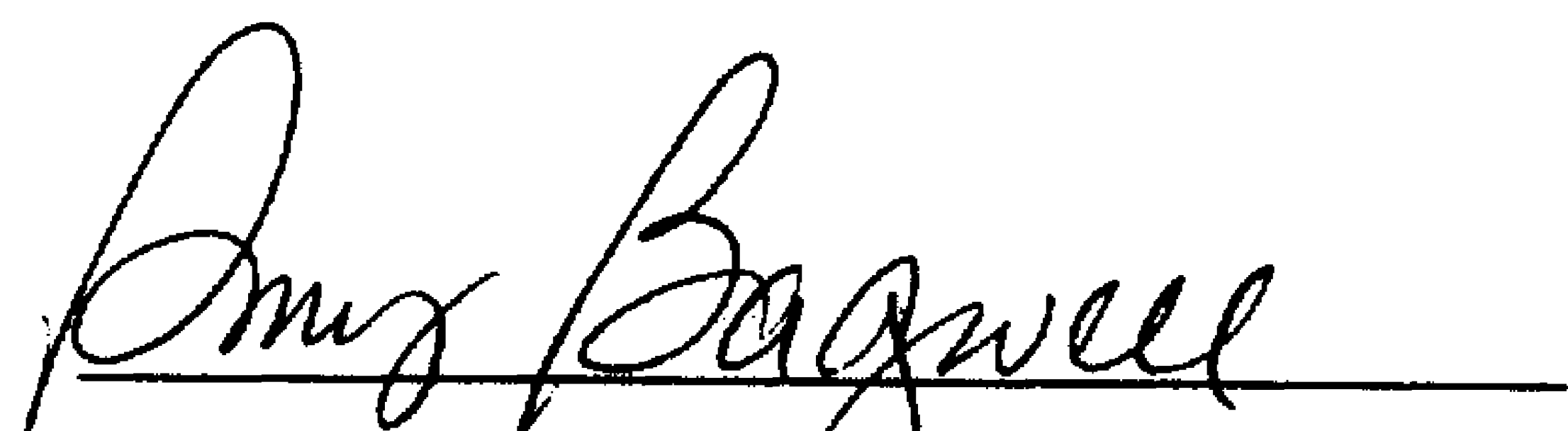
Cust. PO No.: 31-28779

Ship Date: 3/24/92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.27</u>
Bulk Density, gm/cc	ABR-2A	<u>.511</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>8.3</u>
Pan		<u>4.8</u>
Residual VCM, ppm	ABGC-26	<u>.278</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202309

PVC BULK TRAILER ANALYSIS

A

Date 3-24-92 Product S 305 Trailer Number T-377
 Customer ~~H. J. ...~~ N: 648 Silo 680 Time 1210
 Technician M. J. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. ██████		1. <u>4/8</u>		1. <u>—</u>	1. ██████	1. <u>—</u>	L = <u>98.77</u> A = <u>.06</u>	██████	██████
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	B = <u>1.41</u>		
<i>resample</i> MIDDLE	1. <u>.27</u>		1. <u> </u>		1. <u> </u>	1. ██████ <u>.511</u>	1. <u> </u>	L = <u> </u> A = <u> </u>	<u>9/12.0</u>	<u>.278</u>
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	B = <u> </u>		
END	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u> A = <u> </u>		
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	B = <u> </u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.07</u>	<u>6.73</u>	<u>13.03</u>	<u>14.74</u>	<u>8.84</u>	<u>4.14</u>	<u>2.40</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>13.5</u>	<u>26.1</u>	<u>29.5</u>	<u>17.7</u>	<u>8.3</u>	<u>4.8</u>	

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

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

Remarks _____

VAB.0001202310

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3-20-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0007374-005

Attention: Sandy Money

Cust. PO No.: 31-28779

Ship Date: 3-20-92

Trailer No.: T-658

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	ABR-2A	<u>.538</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>17.5</u>
Pan		<u>3.8</u>
Residual VCM, ppm	ABGC-26	<u>.177</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Curtis Outlaw
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202311

46

Date 3-20-92

Product 5305

Trailer Number T-658

Customer Nibco

Silo 679

Time 1100

Technician Co + ES

Order No. 000 7374 - 005

FRONT

How
9.8

MIDDLE

END

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

Glassy Part.

Glassy Part.

Pan

Remarks _____

~~VAB.0001202312~~

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3/13/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0007374-003

Attention: Sandy Money

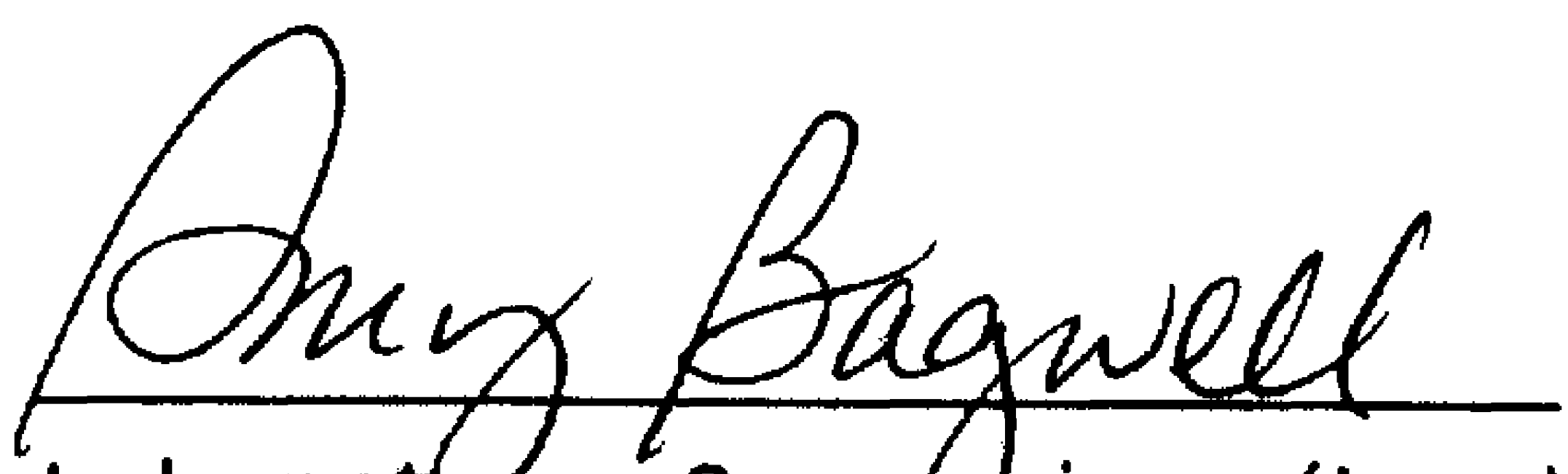
Cust. PO No.: 31-28779

Ship Date: 3/13/92

Trailer No.: T-652

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.510</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>8.5</u>
Pan		<u>3.5</u>
Residual VCM, ppm	ABGC-26	<u>.021</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202313

PVC BULK TRAILER ANALYSIS

Date 3-12-92 Product 5305 Trailer Number T-652
 Customer Nibco Silo 679 Time 2325
 Technician Cot E L Order No. 0007374-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.08		1.27		1. —	1. .510	1. —	L = 99.14		
	2.		2.		2.	2.	2.	A = 0.21		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	.11	8.04	13.16	14.20	8.52	4.23	1.76	
% on Mesh	0.0	.2	16.1	26.3	28.4	17.0	8.5	3.5	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3/10/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 3/10/92

Product: 5305

VISTA

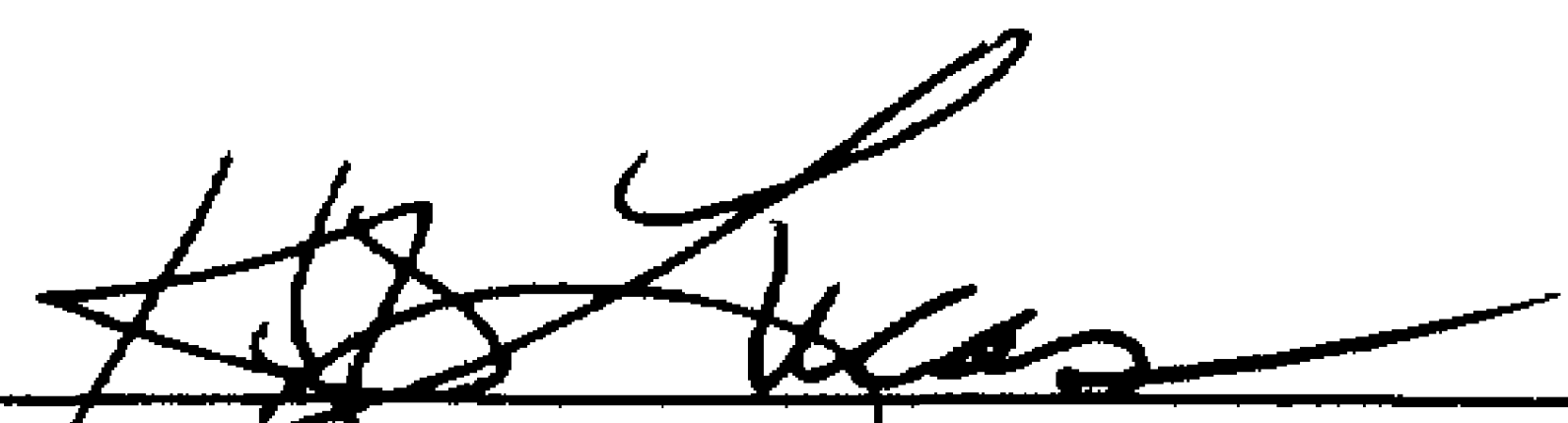
Order No.: 0007374-002

Cust. PO No.: 31-28779

Trailer No.: T652

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	.11
Bulk Density, gm/cc	ABR-2A	.516
Particle Size, % on	ABR-3	
40 Mesh		0.00
200 Mesh		10.6
Pan		3.3
Residual VCM, ppm	ABGC-26	.042
Inherent Viscosity	ABR-10	.72

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202315

PVC BULK TRAILER ANALYSIS

Date 3-10-92 Product S305 Trailer Number T-652
Customer Nibco Silo 679 Time 1430
Technician MA Order No. 007374-002

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.11</u>		1. <u>4/6</u>		1. <u>—</u>	1. <u>.516</u>	1. <u>—</u>	L = <u>100.15</u>	<u>Flow</u> <u>9.4</u>	
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>7.07</u>		
								B = <u>1.73</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.06</u>	<u>5.65</u>	<u>11.50</u>	<u>15.17</u>	<u>10.65</u>	<u>5.32</u>	<u>1.63</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>11.3</u>	<u>23.0</u>	<u>30.4</u>	<u>21.3</u>	<u>10.6</u>	<u>3.3</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 3/6/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0007374-001

Attention: Sandy Money

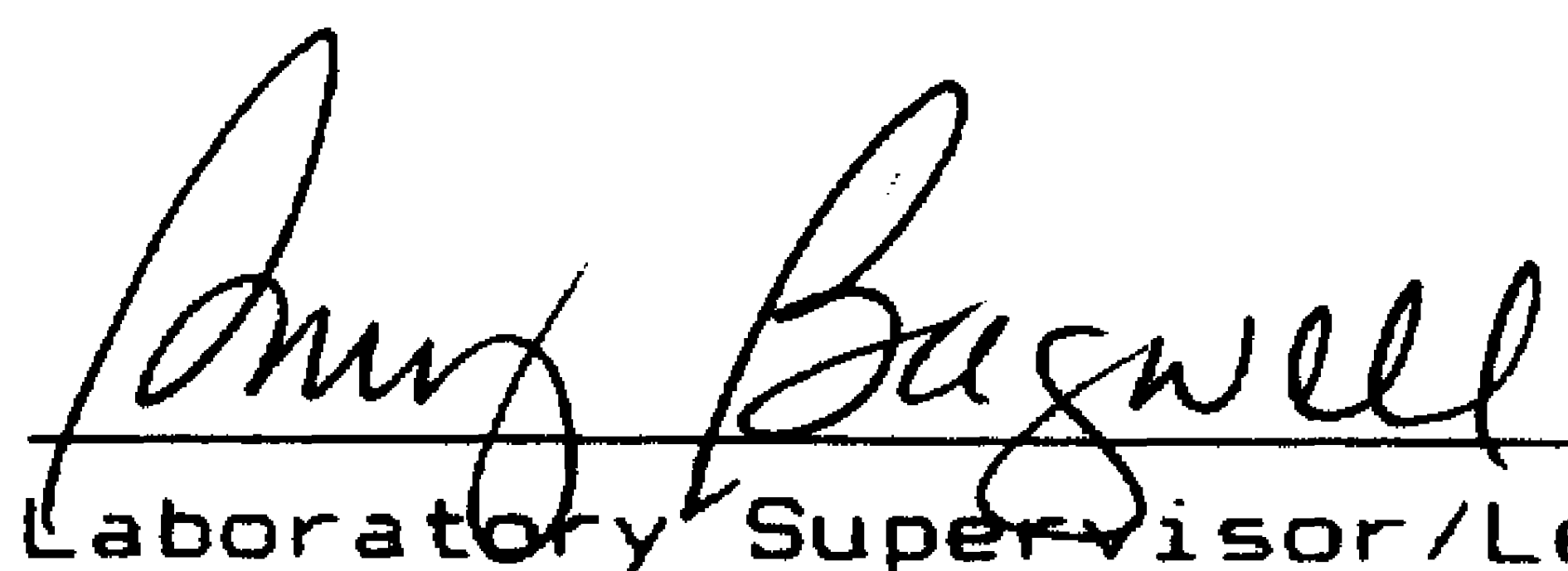
Cust. PO No.: 31-28779

Ship Date: 3/6/92

Trailer No.: T-661

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.15</u>
Bulk Density, gm/cc	ABR-2A	<u>.522</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>13.4</u>
Pan		<u>3.0</u>
Residual VCM, ppm	ABGC-26	<u>.031</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202317

PVC BULK TRAILER ANALYSIS

Date 3-6-92 Product 5305 Trailer Number T-661
Customer Nibco Silo 687 Time 1400
Technician C&ES Order No. 0007374-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>15</u>		1. <u>2/6</u>		1. <u>-</u>	1. <u>.522</u>	1. <u>-</u>	L = <u>99.37</u>		
	2.		2.		2.	2.	2.	A = <u>.46</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.74</u>	<u>.717</u>	<u>12.9</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	A =		
	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.			

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.0</u>	<u>4.63</u>	<u>10.36</u>	<u>14.78</u>	<u>11.78</u>	<u>6.72</u>	<u>1.50</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>9.3</u>	<u>20.7</u>	<u>30.0</u>	<u>23.6</u>	<u>13.4</u>	<u>3.0</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 2-21-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0006109.006

Attention: Sandy Money

Cust. PO No.: 31-28391

Ship Date: 2-21-92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	ABR-2A	<u>.514</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>10.3</u>
Pan		<u>1.7</u>
Residual VCM, ppm	ABGC-26	<u>.084</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

Curtis Outbow

Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202319

PVC BULK TRAILER ANALYSIS

Date 2-21-92 Product 5305 Trailer Number T-377
 Customer Micro Silo 679 Time 1530
 Technician C. Outlaw Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.12		1.2/16		1.	1.	1.	L = 100.05		
	2.		2.		2.	2.	2.	A = .26		
								B = 1.49		9/9.3
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.0	4.99	11.70	16.29	10.78	5.13	.83	
% on Mesh	0.0	0.0	10.0	23.4	33.0	21.6	10.3	1.7	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 2-18-92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0006109-005

Attention: Sandy Money

Cust. PO No.: 31-28391

Ship Date: 2-18-92

Trailer No.: T-377

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	ABR-2A	<u>.513</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>9.5</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.036</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.

James M. Gray
Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202321

A

PVC BULK TRAILER ANALYSIS

Date 2-18-92 Product S 305 Trailer Number T-377
 Customer Nibco Silo 683 Time 2000
 Technician MA Order No. 0006109-005

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>4/5</u>		1.	1. <u>.513</u>	1.	L = <u>100.10</u>	<u>Flow</u>	<u>8.2</u>
	2.		2.		2.	2.	2.	A = <u>.35</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.03</u>	<u>3.50</u>	<u>11.42</u>	<u>17.33</u>	<u>11.86</u>	<u>4.75</u>	<u>1.31</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>7.0</u>	<u>22.8</u>	<u>34.7</u>	<u>23.3</u>	<u>9.5</u>	<u>2.6</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: Feb. 14, 1992

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: Feb. 14, 1992

Product: 5305

VISTA

Order No.: 0006109-004

Cust. PO No.: 31-28391

Trailer No.: 113

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.521</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.0</u>
Pan		<u>2.1</u>
Residual VCM, ppm	ABGC-26	<u>.006</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202323

PVC BULK TRAILER ANALYSIS

Date 2-14-92 Product 5305 Trailer Number T-113
 Customer Nibco Silo C79 Time 10:50
 Technician M.T. Order No. 0006109-004

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>08</u>		1. <u>13</u>		1. <u>-</u>	1. <u>.521</u>	1. <u>-</u>	L = <u>98.87</u>	<u>0/8.7</u>	
	2. <u>13</u>		2. <u>13</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>0.65</u>		
								B = <u>1.82</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.05</u>	<u>2.87</u>	<u>3.77</u>	<u>11.08</u>	<u>14.62</u>	<u>12.45</u>	<u>2.5</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>5.7</u>	<u>11.5</u>	<u>23.6</u>	<u>29.2</u>	<u>24.9</u>	<u>5.0</u>	

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.08</u>	<u>5.40</u>	<u>13.80</u>	<u>17.39</u>	<u>9.34</u>	<u>3.00</u>	<u>1.05</u>	
% on Mesh	<u>0.0</u>	<u>.2</u>	<u>10.8</u>	<u>27.6</u>	<u>34.6</u>	<u>18.7</u>	<u>6.0</u>	<u>2.1</u>	

Remarks PLU

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: 2/4/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: 0006109-001

Attention: Sandy Money

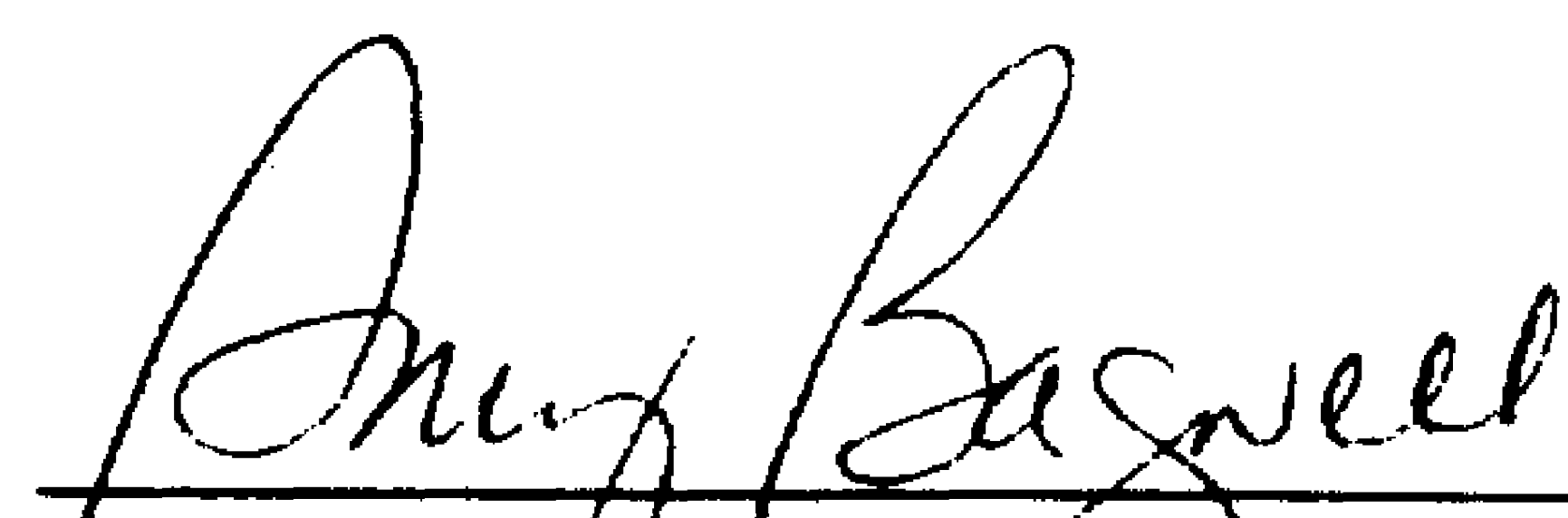
Cust. PO No.: 31-28391

Ship Date: 2/4/92

Trailer No.: 1/3

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.04</u>
Bulk Density, gm/cc	ABR-2A	<u>.511</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.2</u>
Pan		<u>1.6</u>
Residual VCM, ppm	ABGC-26	<u>.038</u>
Inherent Viscosity	ABR-10	<u>.73</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202325

A

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. 04		1. 2/6		1. —	1. .500	1. —	L = 98.76		0/10.7
	2.		2.		2.	2. recheck .511	3.	A = 0.84		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	A =		
								B =		

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

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

Remarks _____

Case DATA Received 4/17/87

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: 2/3/92

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Attention: Sandy Money

Ship Date: 1/31/92

Product: 5305

VISTA

Order No.: 0006109-000

Cust. PO No.: 31-28391

Trailer No.: 371

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.02</u>
Bulk Density, gm/cc	ABR-2A	<u>.534</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>11.0</u>
Pan		<u>2.0</u>
Residual VCM, ppm	ABGC-26	<u>.070</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202327

PVC BULK TRAILER ANALYSIS

Date 1-31-92 Product 5305 Trailer Number T-371
 Customer Wibco Silo 683 Time 10:00
 Technician M.T. & R.H. Order No. 0006109-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.02</u>		1. <u>7</u>		1. <u>—</u>	1. <u>534</u>	1. <u>—</u>	L = <u>99.90</u>	<u>0/7.2</u>	
	2. <u>—</u>		2. <u>8</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>0.61</u>		
								B = <u>1.80</u>		
MIDDLE	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		
END	1. <u>—</u>		1. <u>—</u>		1. <u>—</u>	1. <u>—</u>	1. <u>—</u>	L = <u>—</u>		
	2. <u>—</u>		2. <u>—</u>		2. <u>—</u>	2. <u>—</u>	2. <u>—</u>	A = <u>—</u>		
								B = <u>—</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.0</u>	<u>.05</u>	<u>4.95</u>	<u>11.40</u>	<u>15.84</u>	<u>11.04</u>	<u>5.50</u>	<u>1.02</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>9.9</u>	<u>22.8</u>	<u>32.1</u>	<u>22.1</u>	<u>11.0</u>	<u>2.0</u>	

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

Mesh Size <u>✓</u>	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt. <u>C</u>	<u>0.0</u>	<u>.7</u>	<u>13.2</u>	<u>18.1</u>	<u>29.9</u>	<u>22.9</u>	<u>10.2</u>	<u>5.0</u>	
Tare									
Net Wt.									
% on Mesh									

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: *Jan. 28, 1992*

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

VISTA

Order No.: *0005142-008*

Attention: Sandy Money

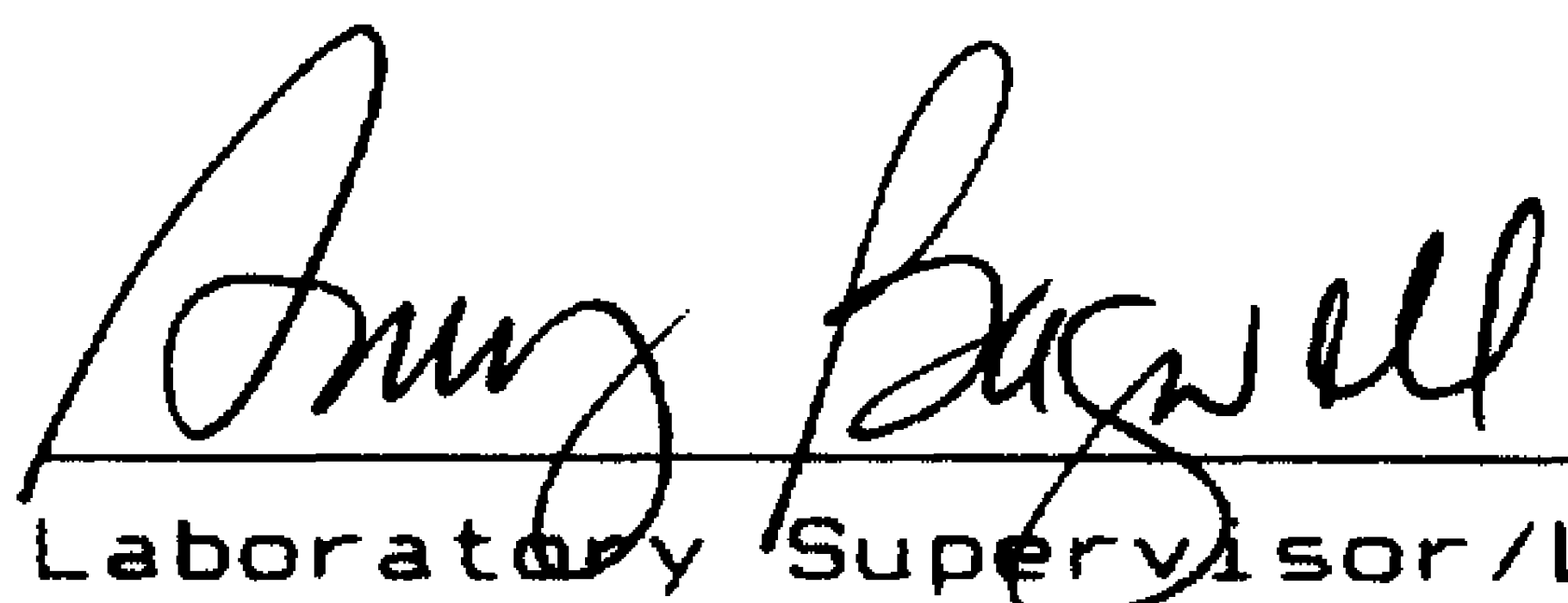
Cust. PO No.: *31-28110*

Ship Date: *Jan. 28, 1992*

Trailer No.: *T-480*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	ABR-2A	<u>.510</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>15.1</u>
Pan		<u>3.0</u>
Residual VCM, ppm	ABGC-26	<u>.036</u>
Inherent Viscosity	ABR-10	<u>.72</u>

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202329

A

PVC BULK TRAILER ANALYSIS

Date 1-28-92 Product S305 Trailer Number T-480
Customer Nibco Silo 679 Time 1310
Technician MA Order No. 0005142-008

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>4/6</u>		1. <u>-</u>	1. <u>.510</u>	1. <u>-</u>	L = <u>100.11</u>	<u>Flow</u> <u>8/7.8</u>	
	2.		2.		2.	2.	2.	A = <u>.39</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.06</u>	<u>1.95</u>	<u>8.26</u>	<u>16.01</u>	<u>14.64</u>	<u>7.54</u>	<u>1.49</u>	
% on Mesh	<u>0.0</u>	<u>0.1</u>	<u>3.9</u>	<u>16.5</u>	<u>32.1</u>	<u>29.3</u>	<u>15.1</u>	<u>3.0</u>	

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	<u>0.0</u>	<u>0.0</u>	<u>7.8</u>	<u>16.8</u>	<u>33.4</u>	<u>28.4</u>	<u>11.2</u>	<u>2.4</u>	
Tare									
Net Wt.									
% on Mesh									

Remarks _____

VAB.0001202330

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: 1/21/92

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

Attention: Sandy Money

Order No.: 000514Z-006

Date of Shipment: 1/21/92

Trailer No.: T-723

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	ABR-2A	<u>.538</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>12.5</u>
Pan		<u>2.6</u>
Residual VCM, ppm	ABGC-26	<u>.007</u>
Inherent Viscosity	ABR-10	<u>.71</u>


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202331

PVC BULK TRAILER ANALYSIS

A

Date 1-21-92 Product 5305 Trailer Number T-723
 Customer Nibco Silo 679 Time 1300-1330
 Technician P.T. + HDL Order No. 0005142-006

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>.23</u>		1. <u>-</u>	1. <u>.538</u>	1. <u>-</u>	L = <u>97.09</u>		
	2. <u>.....</u>		2. <u>.....</u>					A = <u>0.17</u>		
MIDDLE	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>	<u>100</u>	<u>No Meth 2</u>
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
END	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
								B = <u>.....</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.09</u>	<u>3.70</u>	<u>9.92</u>	<u>13.99</u>	<u>10.60</u>	<u>6.71</u>	<u>4.96</u>	
% on Mesh	<u>0.0</u>	<u>0.2</u>	<u>7.4</u>	<u>19.8</u>	<u>28.1</u>	<u>21.2</u>	<u>13.4</u>	<u>9.9</u>	

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.02</u>	<u>3.45</u>	<u>12.03</u>	<u>16.24</u>	<u>11.96</u>	<u>6.27</u>	<u>1.28</u>	
% on Mesh	<u>0.0</u>	<u>0.0</u>	<u>6.9</u>	<u>24.1</u>	<u>30.0</u>	<u>23.9</u>	<u>12.5</u>	<u>2.6</u>	

Remarks

VAB.0001202332

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: Jan. 14, 1992

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

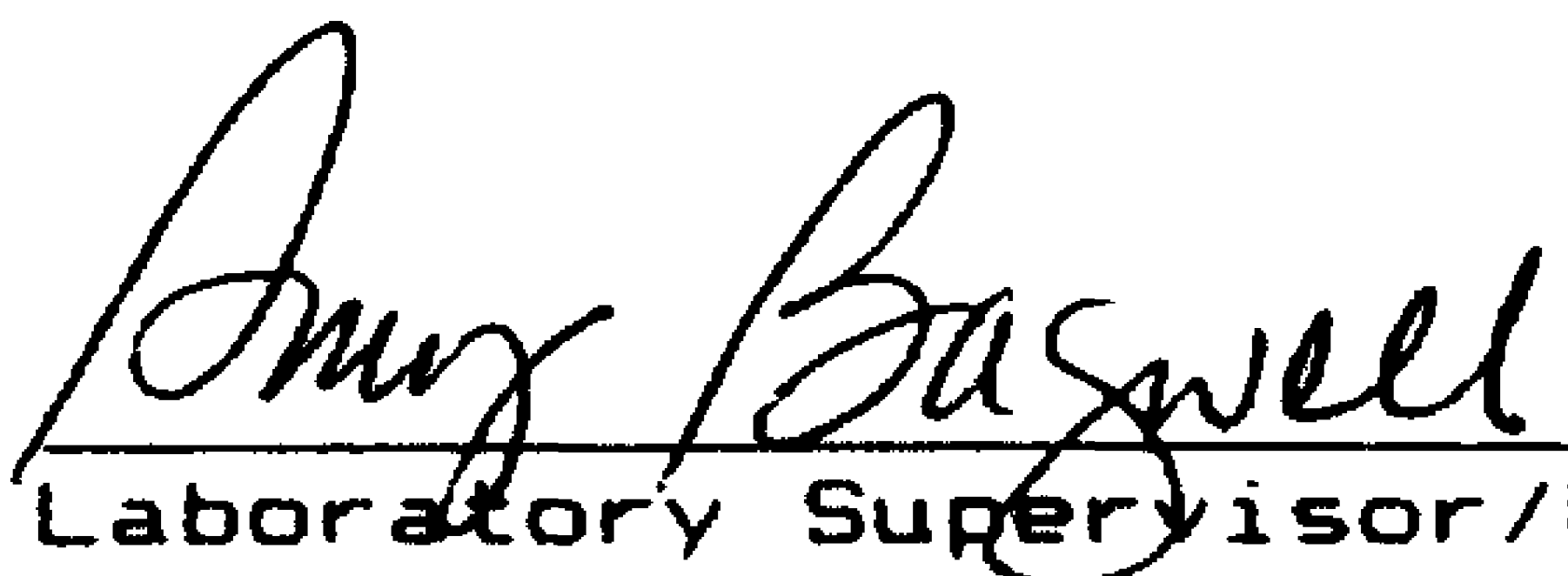
Attention: Sandy Money

Order No.: 0005142-004

Date of Shipment: Jan. 14, 1992

Trailer No.: T-723

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.09</u>
Bulk Density, gm/cc	ABR-2A	<u>.517</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>12.4</u>
Pan		<u>1.3</u>
Residual VCM, ppm	ABGC-26	<u>.016</u>
Inherent Viscosity	ABR-10	<u>.73</u>


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202333

PVC BULK TRAILER ANALYSIS

Date 1-14-92 Product 5305 Trailer Number T-723
 Customer Nibco Silo 683 Time 1400
 Technician ME Order No. 0005142-004

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.09</u>		1. <u>1.3</u>		1. <u>/</u>	1. <u>.517</u>	1. <u>/</u>	L = <u>98.63</u>	<u>Flaw</u> <u>8.9</u>	
	2. <u>/</u>		2. <u>/</u>		2. <u>/</u>	2. <u>/</u>	2. <u>/</u>	A = <u>.89</u>		
MIDDLE	1. <u>/</u>		1. <u>/</u>		1. <u>/</u>	1. <u>/</u>	1. <u>/</u>	L = <u>/</u>		
	2. <u>/</u>		2. <u>/</u>		2. <u>/</u>	2. <u>/</u>	2. <u>/</u>	A = <u>/</u>		
END	1. <u>/</u>		1. <u>/</u>		1. <u>/</u>	1. <u>/</u>	1. <u>/</u>	L = <u>/</u>		
	2. <u>/</u>		2. <u>/</u>		2. <u>/</u>	2. <u>/</u>	2. <u>/</u>	A = <u>/</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.07</u>	<u>3.30</u>	<u>9.89</u>	<u>16.60</u>	<u>12.82</u>	<u>6.18</u>	<u>.65</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>6.6</u>	<u>19.8</u>	<u>34.2</u>	<u>25.6</u>	<u>12.4</u>	<u>1.3</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 1-10-92

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

Attention: Sandy Money

Order No.: 0005142-003

Date of Shipment: 1-10-92

Trailer No.: T-415

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.15</u>
Bulk Density, gm/cc	ABR-2A	<u>.516</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.5</u>
Pan		<u>1.4</u>
Residual VCM, ppm	ABGC-26	<u>.008</u>
Inherent Viscosity	ABR-10	<u>.73</u>


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202335

PVC BULK TRAILER ANALYSIS

A

Date 1-10-92 Product 5305 Trailer Number T-415
 Customer Nibco Silo 683 + 684 Time 1130
 Technician Cot E2 Order No. 0005142-003

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.15</u>		1. <u>4/7</u>		1. <u>-</u>	1. <u>.516</u>	1. <u>-</u>	L = <u>98.96</u>		
	2.		2.		2.	2.	2.	A = <u>0.55</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		

Flow
9/8.7

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.16</u>	<u>9.04</u>	<u>16.21</u>	<u>15.98</u>	<u>6.32</u>	<u>1.74</u>	<u>.68</u>	
% on Mesh	<u>0.0</u>	<u>.3</u>	<u>18.1</u>	<u>32.4</u>	<u>31.7</u>	<u>12.6</u>	<u>3.5</u>	<u>1.4</u>	

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

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

Remarks _____

VAB.0001202336

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: 1/3/92

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

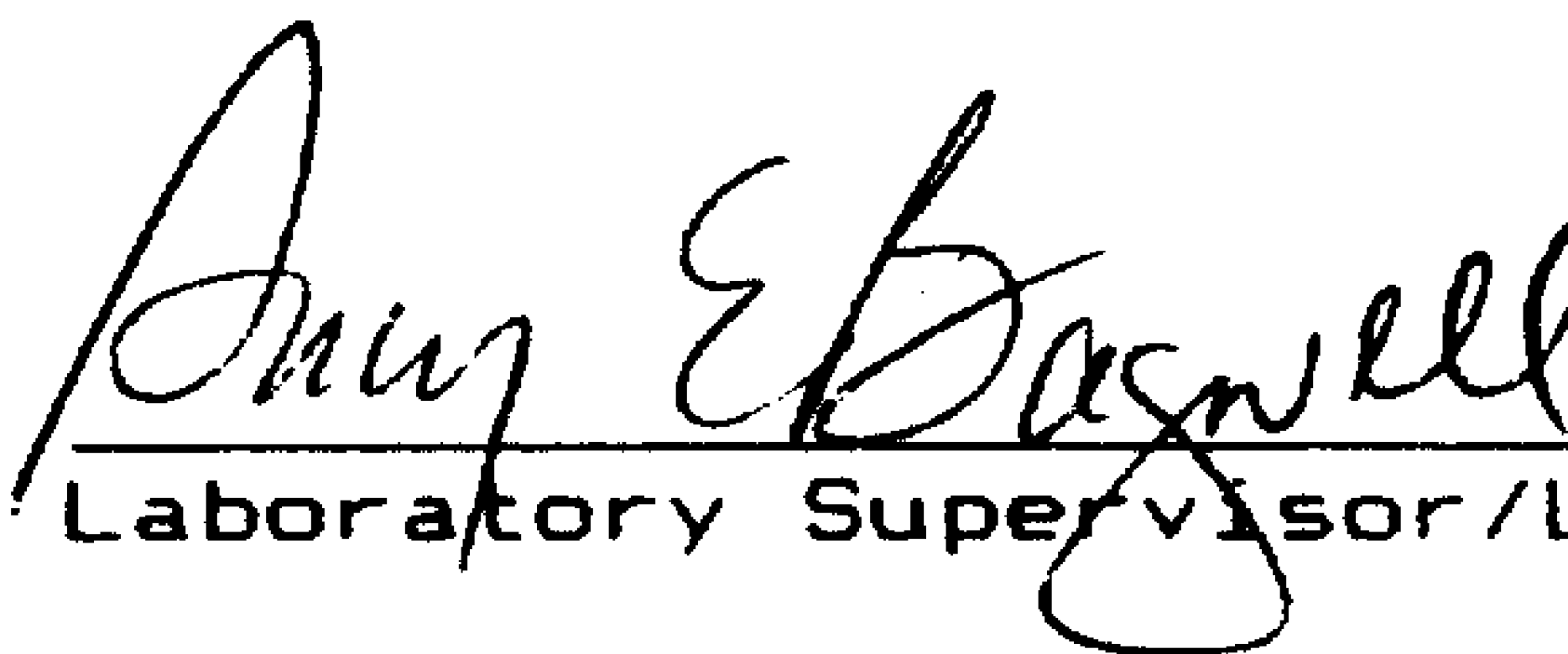
Attention: Sandy Money

Order No.: 0005142-001

Date of Shipment: 1/4/92

Trailer No.: T-809

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.03</u>
Bulk Density, gm/cc	ABR-2A	<u>.518</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.7</u>
Pan		<u>1.5</u>
Residual VCM, ppm	ABGC-26	<u>.019</u>
Inherent Viscosity	ABR-10	<u>.73</u>


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202337

PVC BULK TRAILER ANALYSIS

Date 1-3-92 Product 5305 Trailer Number T-809
Customer Nibco Silo 684 Time 13.35
Technician M.T & RH Order No. 0005142-001

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.3</u>		1. <u>3</u>		1. <u>-</u>	1. <u>.518</u>	1. <u>-</u>	L = <u>99.72</u>	<u>0</u> <u>11.4</u>	
	2. <u>.....</u>		2. <u>6</u>					A = <u>0.53</u>		
								B = <u>1.98</u>		
MIDDLE	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
								B = <u>.....</u>		
END	1. <u>.....</u>		1. <u>.....</u>		1. <u>.....</u>	1. <u>.....</u>	1. <u>.....</u>	L = <u>.....</u>		
	2. <u>.....</u>		2. <u>.....</u>		2. <u>.....</u>	2. <u>.....</u>	2. <u>.....</u>	A = <u>.....</u>		
								B = <u>.....</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>
Tare <u>P</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>	<u>.....</u>
Net Wt.	<u>0.00</u>	<u>1.23</u>	<u>7.02</u>	<u>14.65</u>	<u>16.82</u>	<u>8.10</u>	<u>2.23</u>	<u>0.73</u>	<u>.....</u>
% on Mesh	<u>0.0</u>	<u>2.5</u>	<u>14.0</u>	<u>29.3</u>	<u>31.8</u>	<u>16.2</u>	<u>4.7</u>	<u>1.5</u>	<u>.....</u>

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

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

Remarks
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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: Jan. 2, 1992

VISTA

Customer: Nibco, Inc.
2929 W. Magazine
Louisville, KY 40201

Product: 5305

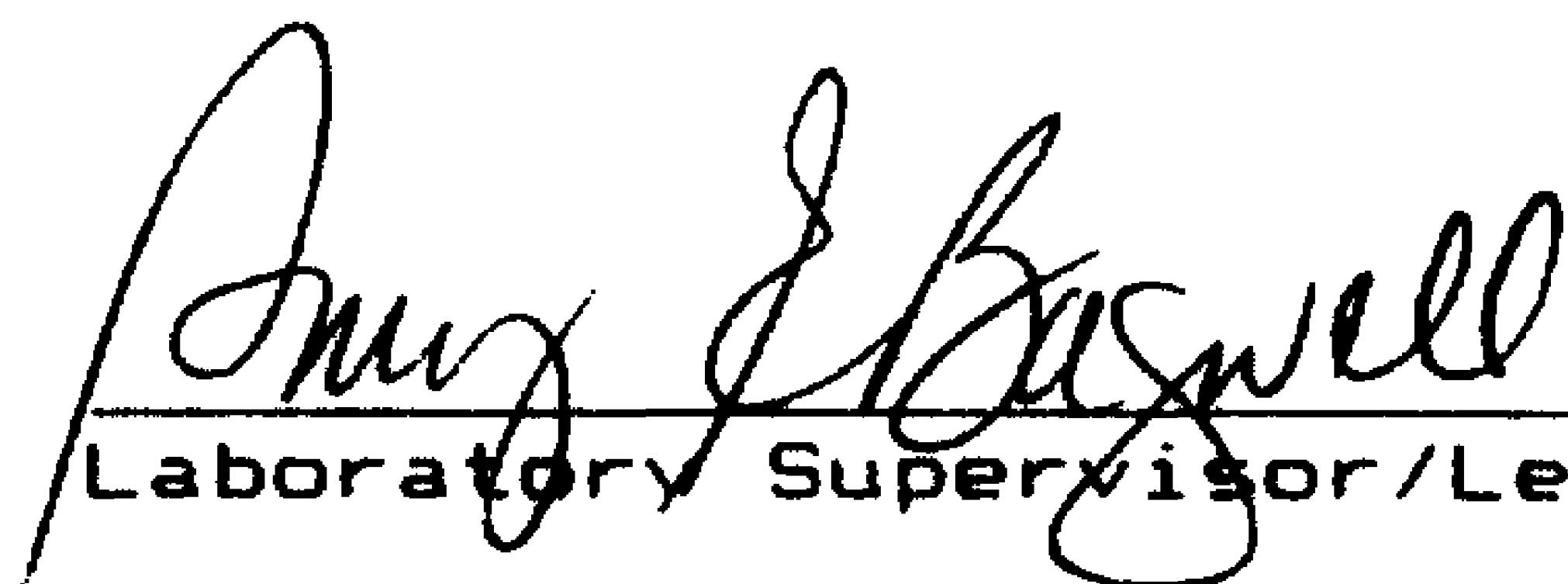
Attention: Sandy Money

Order No.: 0005142-000

Date of Shipment: Jan. 2, 1992

Trailer No.: T-868

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	ABR-2A	<u>.540</u>
Particle Size, % on	ABR-3	
40 Mesh		<u>0.00</u>
200 Mesh		<u>7.9</u>
Pan		<u>1.4</u>
Residual VCM, ppm	ABGC-26	<u>.004</u>
Inherent Viscosity	ABR-10	<u>.73</u>


Laboratory Supervisor/Lead

cc: Nibco, Inc.
500 Simpson Avenue
Elkhart, IN 46515-1167

ATT: Louis Macakanja

VAB.0001202339

PVC BULK TRAILER ANALYSIS

Date 1-29-91 Product 5305 Trailer Number T-868
Customer W. B. CO Silo 683 Time 13:40
Technician WAT Order No. 0005142-000

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.08</u>		1. <u>4</u>		1. <u>-</u>	1. <u>.540</u>	1. <u>-</u>	L = <u>101.02</u>	<u>0</u> <u>7.7</u>	
	2. <u>7</u>		2. <u>7</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>1.00</u>		
MIDDLE	1. <u>0.08</u>		1. <u>4</u>		1. <u>-</u>	1. <u>.540</u>	1. <u>-</u>	L = <u>99.83</u>	<u>Rel</u>	
	2. <u>7</u>		2. <u>7</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>1.60</u>		
END	1. <u>0.08</u>		1. <u>4</u>		1. <u>-</u>	1. <u>.540</u>	1. <u>-</u>	L = <u>2.15</u>		
	2. <u>7</u>		2. <u>7</u>		2. <u>-</u>	2. <u>-</u>	2. <u>-</u>	A = <u>1.60</u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>P</u>									
Net Wt.	<u>0.00</u>	<u>0.3</u>	<u>4.25</u>	<u>12.51</u>	<u>17.19</u>	<u>16.69</u>	<u>3.96</u>	<u>0.70</u>	
% on Mesh	<u>0.00</u>	<u>0.6</u>	<u>8.5</u>	<u>25.0</u>	<u>35.8</u>	<u>21.4</u>	<u>7.9</u>	<u>1.4</u>	

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

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

Remarks _____

