

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: 21 Aug., 1991

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45800

Date of Shipment: 20 Aug. 91

Order No.: 0000684-008

Property	Test Method	Analysis
Moisture, %	ABR-1A	.16
Bulk Density, GM/CC	ABR-2A	.527

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.0	0.7	9.1	23.4	34.4	21.1	9.8	1.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

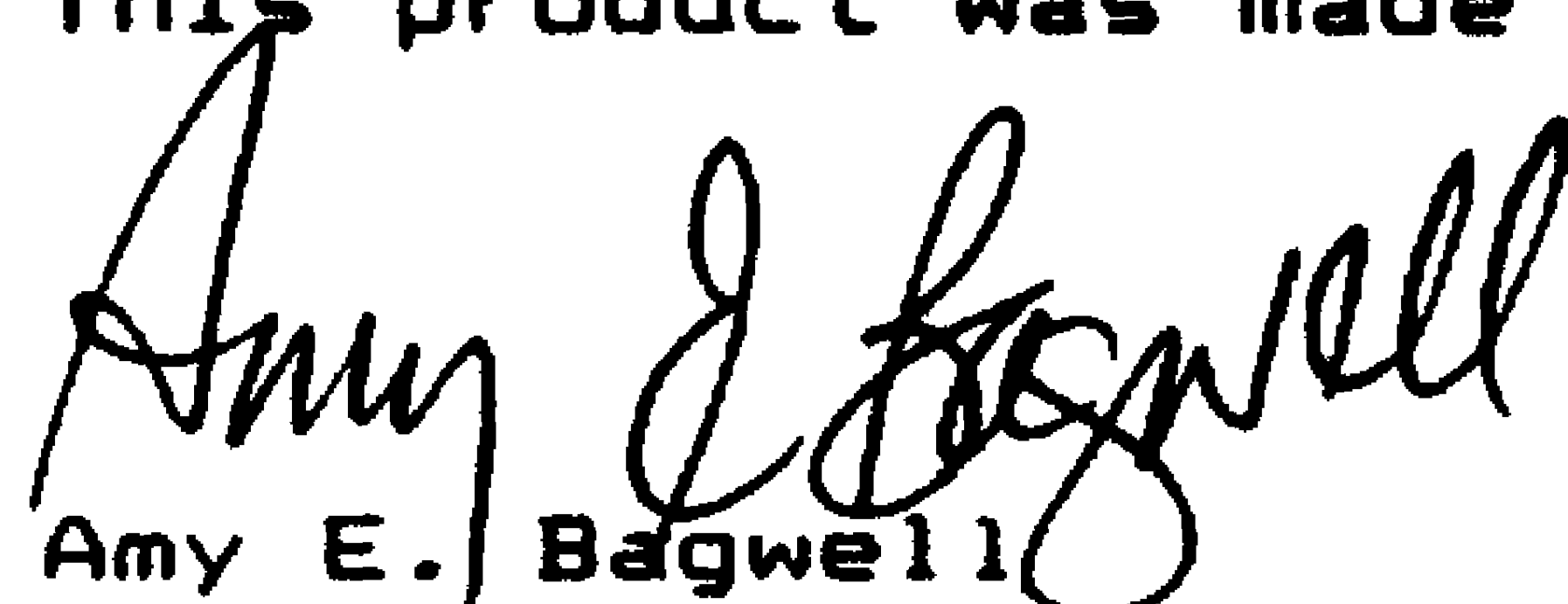
Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
.024	.067	.017	.007
.73	.73	.73	.73
4 / 7	3 / 10	4 / 7	5 / 10

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Amy E. Bagwell

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193258

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: 23 Aug., 1991

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX 46521

Date of Shipment: 22 Aug. 91

Order No.: 0000684-011

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.10
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Bulk Density, GM/CC	ABR-2A	0.543
------------------------	--------------	-------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.00	0.8	16.2	26.1	30.3	17.9	7.1	1.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.004	0.288	0.464	0.001
0.73	0.72	0.72	0.73
6/ 11	4/ 7	5/ 6	4/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Amy E. Bagwell

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193260

PVC RAILCAR ANALYSIS

Load Date: 8-20-91

Product:

5305

Car No.:

UTCX
46521Time Logged In: 13:30Logged In By: D.T.Ship Date: 22 Aug 91

Silo(s):

687, 688, 678

Customer:

CSF (Munich)0000684-011No Meta L

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.10		.07		.07		.10	
Contamination Syntron Method	6/11		7/7		5/6		7/7	
Wet Method								
Bulk Density	.542		.545		.544		.541	
BD w/antistat								
Viscosity	.726		.717		.715		.725	
RVCM	.004		.288		.464		.001	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 — .15		.20 — .60			
	4/10							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.40</u>	<u>8.10</u>	<u>13.04</u>	<u>15.21</u>	<u>8.95</u>	<u>3.54</u>	<u>0.81</u>
%	<u>0.0</u>	<u>0.8</u>	<u>16.2</u>	<u>26.1</u>	<u>30.3</u>	<u>17.9</u>	<u>7.1</u>	<u>1.6</u>

Static Flow: 0, 8.3

% Glassies:

<1%

Avg. Microns:

149.0

Color L:

99.38

a

0.58

b

1.71

CPA:

19.1

Technician:

D.T. F.H.D.

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Phone (601) 369-8111

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CERTIFICATE OF ANALYSIS

Date: 22 Aug., 1991

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX 46550

Date of Shipment: 21 Aug. 91

Order No.: 0000684-010

Property	Test Method	Analysis
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Moisture, %	ABR-1A	0.16
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Bulk Density, GM/CC	ABR-2A	0.549
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.7	17.5	28.2	26.0	18.7	7.3	1.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
---	----	----	---

0.001	0.081	0.020	0.067
0.73	0.73	0.73	0.73
4/ 9	6/ 10	4/ 7	3/ 10

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Amy E. Bagwell

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193262

PVC RAILCAR ANALYSIS

Load Date: 8-18-91

Product:

5305

Car No.: 46550Time Logged In: 0330Logged In By: MAShip Date: 8/21/91Silo(s): 680, 688Customer: CSL (Miner)0000684-010no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.15		.16		.12		.14	
Contamination Syntron Method	4/5		9/10		4/7		3/10	
Wet Method								
Bulk Density	.524		.559		.563		.549	
BD w/antistat								
Viscosity	.730		.734		.727		.733	
RVCM	.001		.081		.020		.067	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 — .15		.20 — .60			
	4/8							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.36</u>	<u>8.77</u>	<u>14.11</u>	<u>13.96</u>	<u>9.37</u>	<u>3.65</u>	<u>.82</u>
%	<u>0.0</u>	<u>.7</u>	<u>17.5</u>	<u>28.2</u>	<u>26.0</u>	<u>18.7</u>	<u>7.3</u>	<u>1.6</u>

Static Flow: 0 17.7% Glassies: < 1%Avg. Microns: 150.0Color L: 99.90 a .61 b 1.74 CPA: 18.9Technician: MAITE

Vista Polymers
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Vista Chemical Company

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Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

Date: 20 Aug., 1991

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: PLWX 44372

Date of Shipment: 19 Aug. 91

Order No.: 0000684-002

Property	Test Method	Analysis
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Moisture, %	ABR-1A	0.15
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Bulk Density, GM/CC	ABR-2A	0.543
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	5.9	19.1	26.8	21.7	17.2	7.5	1.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
---	----	----	---

0.017	0.099	0.018	0.015
0.73	0.73	0.73	0.73
5/ 7	6/ 10	4/ 6	5/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Amy E. Bagwell

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193264

PVC RAILCAR ANALYSIS

Load Date: 8-18-91 Product: 5305 Car No.: 44372Time Logged In: 1100 Logged In By: R31Ship Date: 8/19/91 Silo(s): 680 Customer: Niney-CS4
0000684-002

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.13		.11		.15		.12	

Contamination Syntron Method	5/7		4/10		4/6		5/7	
Wet Method								
Bulk Density	.546		.540		.542		.544	
BD w/antistat								
Viscosity	.729		.733		.732		.730	
RVCM	.017		.099		.018		.015	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	4/8		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.96</u>	<u>9.57</u>	<u>13.40</u>	<u>12.71</u>	<u>8.59</u>	<u>3.75</u>	<u>.92</u>
%	<u>0.0</u>	<u>5.9</u>	<u>19.1</u>	<u>26.8</u>	<u>21.7</u>	<u>17.2</u>	<u>7.5</u>	<u>1.8</u>

Static Flow: 0 17.3 % Glasses: <1% Avg. Microns: 161.2Color L: 99.26 a .46 b 1.71 CPA: 18.3Technician: MATE

PVC RAILCAR ANALYSIS

Load Date: 8-7-91Product: 5308Car No.: 76869Time Logged In: 11:30Logged In By: JTShip Date: 8/12/91Silo(s): 680+688Customer: Turney - CSFIN Jugs0000684 - 006No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.07		.16		.18	
Contamination Syntron Method	1/6		1/8		1/6		1/5	
Wet Method								
Bulk Density	.511		.518		.550		.550	
BD w/antistat								
Viscosity	.728		.729		.728		.729	
RVCM	.004		.001		.001		.068	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/7							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.43</u>	<u>11.68</u>	<u>14.27</u>	<u>13.53</u>	<u>6.45</u>	<u>1.99</u>	<u>0.79</u>
%	<u>0.0</u>	<u>2.9</u>	<u>23.4</u>	<u>28.5</u>	<u>26.7</u>	<u>12.9</u>	<u>4.0</u>	<u>1.6</u>

Static Flow: 0 17.7% Glassies: <1%Avg. Microns: 161.9Color L: 98.89a: 0.47b: 1.65CPA: 18.9Technician: ES + JS

CERTIFICATE OF ANALYSIS

Date: 8/13/91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: PLCX-46869

Date of Shipment: 8/12/91

Order No.: 0000684-006

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.18
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Bulk Density, GM/CC	ABR-2A	0.532
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Particle Size, % on	ABR-3
----------------------------	-------

40	60	80	100	120	140	200	PAN
0.00	2.9	23.4	28.5	26.7	12.9	4.0	1.6

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
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Inherent Viscosity	ABR-10B
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Contamination,	
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Syntron, Blk/Brn	ABR-5A
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Made with decalcified water.

A	CA	CB	B
0.004	0.001	0.001	0.068
0.73	0.73	0.73	0.73
1/ 6	1/ 8	1/ 6	1/ 5

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193267

PVC RAILCAR ANALYSIS

Load Date: 8-8-91 Product: 5305 Car No.: 45794 ^{VIPX}

Time Logged In: 1120 Logged In By: ES

Ship Date: 8/9/91 Silo(s): 680, 683 Customer: CSL (Piney)

→ NOT MIRREX 0000684-005

No metal ↓ 1730 ES

	(A)		(CA)		(CB)		(B)	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.07		.05		.06		.02	

Contamination Syntron Method	3/4		3/6		3/7		4/8	
Wet Method								
Bulk Density	.545		.521		.520		.528	.524
BD w/antistat								
Viscosity	.723		.726		.725		.725	.724
RVCM	.006		.001		.000		.100	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	11/8		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.02</u>	<u>4.10</u>	<u>11.25</u>	<u>17.33</u>	<u>11.94</u>	<u>4.27</u>	<u>0.85</u>
% P	<u>0.0</u>	<u>0.0</u>	<u>8.2</u>	<u>22.5</u>	<u>35.2</u>	<u>23.9</u>	<u>8.5</u>	<u>1.7</u>

Static Flow: 0 18.9 % Glasses: < 1% Avg. Microns: 138.2

Color L: 99.04 a 0.55 b 1.61 CPA: 19.2

Technician: MT + RH

new

CERTIFICATE OF ANALYSIS

Date: 12 Aug. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45794

Date of Shipment: 9 Aug. 91

Order No.: 0000684-005

Property Test Method Analysis

Moisture, % ABR-1A06

Bulk Density, ABR-2A524
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.0	8.2	22.5	35.2	23.9	8.5	1.7

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with deca/calcified water.

CA	CB	B
0.001	0.070	0.100
0.73	0.73	0.73
3/ 6	3/ 7	4/ 8

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193269

PVC RAILCAR ANALYSIS

Load Date: 8-6-91Product: 5305Car No.: ACFX 41184Time Logged In: 17:00Logged In By: D.T.Ship Date: 8/8/91Silo(s): 687+688Customer: CSL (Miner)000684-004No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.08		.10		.08		.06	

Contamination Syntron Method	5/7		8/7		9/12		4/9	
Wet Method								
Bulk Density	.543		.525		.525		.544	
BD w/antistat								
Viscosity	.721		.734		.738		.725	
RVCM	.008		.010		.008		.005	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	5/11		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.18</u>	<u>6.58</u>	<u>12.34</u>	<u>16.63</u>	<u>10.07</u>	<u>3.45</u>	<u>0.87</u>
%	<u>0.0</u>	<u>0.4</u>	<u>13.2</u>	<u>24.7</u>	<u>33.0</u>	<u>20.1</u>	<u>6.9</u>	<u>1.7</u>

Static Flow: 0 18.2 % Glassies: <1% Avg. Microns: 145.0Color L: 99.74 a 0.29 b 1.44 CPA: 18.8Technician: D.T. & HDL

CERTIFICATE OF ANALYSIS

Date: 12 Aug. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41184

Date of Shipment: 8 Aug. 91

Order No.: 0000684-004

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.10
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Bulk Density, GM/CC	ABR-2A	0.534
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.4	13.2	24.7	33.0	20.1	6.9	1.7

BY COMPARTMENT

Residual VCM, PPM ABR-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.008	0.060	0.008	0.005
0.72	0.73	0.74	0.73
5/ 7	8/ 7	9/ 12	4/ 9

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193271

PVC RAILCAR ANALYSIS

Load Date: 8-5-91Product: 5305Car No.: 46525Time Logged In: 0500Logged In By: MAShip Date: 8/8/91Silo(s): 678, 680Customer: Miney (CS4)0000684 -003no metalIN TUGS

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.02		.03		.09		.01	

Contamination
Syntroon Method

<u>6/5</u>		<u>3/4</u>		<u>7/5</u>		<u>6/5</u>	
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Wet Method

--	--	--	--	--	--	--	--

Bulk Density

<u>.545</u>		<u>.538</u>		<u>.546</u>		<u>.538</u>	
-------------	--	-------------	--	-------------	--	-------------	--

BD w/antistat

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Viscosity

<u>.730</u>		<u>.729</u>		<u>.737</u>		<u>.731</u>	
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RVCM

<u>.001</u>		<u>.003</u>		<u>.011</u>		<u>.001</u>	
-------------	--	-------------	--	-------------	--	-------------	--

Blown Film

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Tappi Test
Contamination
Composite.06 or less.07 ----- .15.20 ----- .60

<u>3/4</u>			
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Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.20</u>	<u>7.64</u>	<u>13.21</u>	<u>15.54</u>	<u>8.81</u>	<u>3.38</u>	<u>.90</u>
% P	<u>0.0</u>	<u>.4</u>	<u>15.3</u>	<u>26.4</u>	<u>31.7</u>	<u>17.6</u>	<u>6.8</u>	<u>1.8</u>

Static Flow: 0.17.4% Glassies: < 1%Avg. Microns: 147.6Color L: 99.45 a 0.44 b 1.58 CPA: 19.1Technician: M, T & R H

CERTIFICATE OF ANALYSIS

Date: 12 Aug. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46525

Date of Shipment: 8 Aug. 91

Order No.: 0000684-003

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.09
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Bulk Density, GM/CC	ABR-2A	0.542
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.4	15.3	26.4	31.7	17.6	6.8	1.8

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
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Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

Made with decalcified water.

A	CA	CB	B
0.001	0.003	0.011	0.001
0.73	0.73	0.74	0.73
6/ 5	3/ 4	7/ 5	6/ 5

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193273

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: 9 Aug. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41161

Date of Shipment: 5 Aug. 91

Order No.: 0000684-001

Property Test Method Analysis

Moisture, % ABR-1A 0.12

Bulk Density, ABR-2A 0.526
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.3	11.7	23.2	31.5	21.8	8.9	2.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

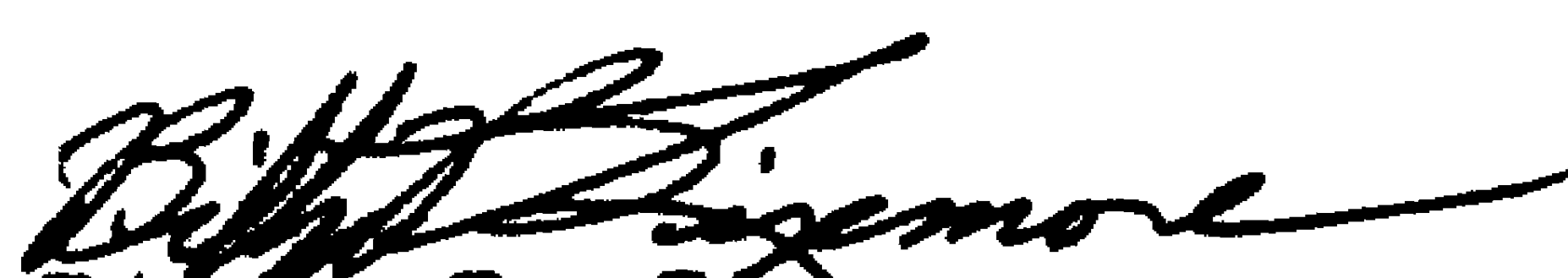
Made with decalcified water.

A CA CB B

0.055	0.007	0.053	0.006
0.72	0.74	0.73	0.74
1/ 8	2/ 6	1/ 11	3/ 9

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193274

A

PVC RAILCAR ANALYSIS

ACFX

Load Date: 8-1-91 Product: 5305 Car No.: 4151Time Logged In: 1300 Logged In By: ACFShip Date: 5 Aug. 91 Silo(s): 680, 688, 687 Customer: Thurman (CSU)
IN Jugs 0000684-001No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.12		.05		.09	
Contamination Syntron Method	<u>4/8</u>		<u>4/6</u>		<u>1/11</u>		<u>3/9</u>	
Wet Method								
Bulk Density	.536		.530		.520		.518	
BD w/antistat								
Viscosity	.123		.121		.130		.139	
RVCM	.055		.007		.053		.006	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>3/8</u>							

Screen Analysis

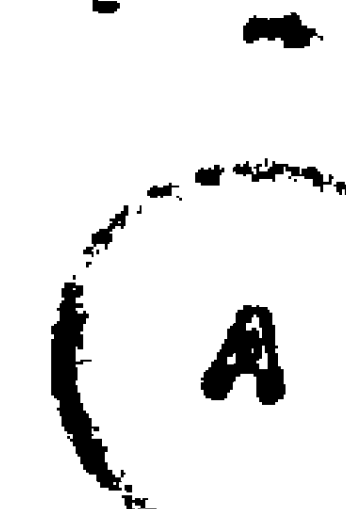
Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.16</u>	<u>5.87</u>	<u>11.61</u>	<u>15.83</u>	<u>10.90</u>	<u>4.45</u>	<u>1.28</u>
%	<u>0.0</u>	<u>0.3</u>	<u>11.7</u>	<u>23.2</u>	<u>31.5</u>	<u>21.8</u>	<u>8.9</u>	<u>2.6</u>

Static Flow: 0 18.5 % Glassies: < 1% Avg. Microns: 146.1Color L: 99.16 a 0.29 b 1.44 CPA: 19.6Technician: ES & JS

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: 8 Aug. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41177

Date of Shipment: 6 Aug. 91

Order No.: 0000684-002

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.06
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.544
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	1.0	20.4	28.3	29.3	15.1	4.6	1.3

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A CA CB B

0.012	0.087	0.013	0.011
0.73	0.72	0.73	0.73
3/ 5	2/ 6	1/ 7	3/ 8

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193276

PVC RAILCAR ANALYSIS

Load Date: 8-1-91 Product: 5305 Car No.: 41177Time Logged In: 2345 Logged In By: ESShip Date: 6 Aug. 91 Silo(s): 678 Customer: Murphy (CSU)
0000684-002No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.01		.01		.01	
Contamination Syntron Method	3/5		2/6		1/7		3/8	
Wet Method								
Bulk Density	.544		.545		.543		.544	
BD w/antistat								
Viscosity	.727		.724		.726		.725	
RVCM	.012		.087		.013		.011	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/8							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.52</u>	<u>10.20</u>	<u>14.17</u>	<u>14.58</u>	<u>7.54</u>	<u>2.28</u>	<u>0.67</u>
% P	<u>0.0</u>	<u>1.0</u>	<u>20.4</u>	<u>28.3</u>	<u>29.3</u>	<u>15.1</u>	<u>4.6</u>	<u>1.3</u>

Static Flow: 0 17.4 % Glassies: <190 Avg. Microns: 155.3Color L: 98.92 a 0.36 b 1.54 CPA: 18.9Technician: M. T. J. R. H.

CERTIFICATE OF ANALYSIS

Date: 26 July 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45878

Date of Shipment: 25 July 91

Order No.: 0000684-000

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.16
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.523
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.3	11.2	21.9	30.8	22.0	11.0	2.8

BY COMPARTMENT

Residual VCM, PPM	ABGC-26		
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Inherent Viscosity	ABR-10B		
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Contamination,			
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Syntron, Blk/Brn	ABR-5A		
------------------	--------	--	--

Made with decalcified water.

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

A	CA	CB	B
0.058	0.098	0.010	0.030
0.74	0.72	0.72	0.72
2/ 7	3/ 5	2/ 9	3/ 7

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193278

PVC RAILCAR ANALYSIS

Load Date: 7-10-91 Product: 5305 Car No.: 15178

Time Logged In: 0530 Logged In By: X

Ship Date: 7/25/91 Silo(s): 683, 684 Customer: CSL (Nine)
0000684 000

no metal samples in Jug 1

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.13		.13		.16		.08	

Contamination Synttron Method	2/7		3/5		2/9		3/7	
Wet Method								
Bulk Density	.529		.524		.528		.510	
BD w/antistat								
Viscosity	.738		.715		.719		.715	
RVCN	.058		.098		.010		.030	
Blown Film								

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>.13</u>	<u>5.60</u>	<u>10.97</u>	<u>15.41</u>	<u>10.98</u>	<u>5.48</u>	<u>1.40</u>
%	<u>0.0</u>	<u>.3</u>	<u>11.2</u>	<u>21.9</u>	<u>30.8</u>	<u>22.0</u>	<u>11.0</u>	<u>2.8</u>

Static Flow: 0.18.6 % Glassies: 41% Avg. Microns: 139.1

Co. Let L: 99.10 a 0.57 b 1.58 CPA: 18.6

Technician: CVES



CERTIFICATE OF ANALYSIS

VISTA

Date: 10 July 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynne Webb

Railcar No.: PLCX-44680

Date of Shipment: 5 July 91

Order No.: 0000452-001

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

Moisture, %	ABR-1A	0.03
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.548
------------------------	--------------	-------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.00	1.0	16.6	24.3	29.8	19.1	7.0	2.2

BY COMPARTMENT

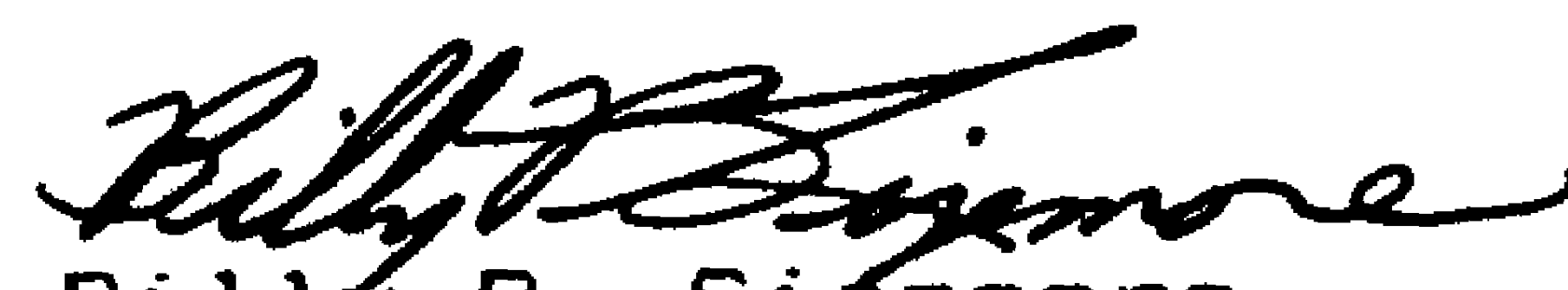
Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

A	CA	CB	B
0.001	0.006	0.006	0.009
0.65	0.65	0.65	0.65
5/ 8	6/ 9	6/ 8	5/ 8


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 7-4-91 Product: 5265Car No.: 44680Time Logged In: 0600Logged In By: CShip Date: 5 July 91 Silo(s): 687, 686 Customer: CSX0000452-001No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	<u>.02</u>		<u>.02</u>		<u>.03</u>		<u>.02</u>	
Contamination	<u>5</u> <u>8</u>	<u>—</u>	<u>6</u> <u>9</u>	<u>—</u>	<u>6</u> <u>8</u>	<u>—</u>	<u>5</u> <u>8</u>	<u>—</u>
Bulk Density	<u>.547</u>		<u>.552</u>		<u>.548</u>		<u>.545</u>	
BD w/antistat								
Viscosity	<u>.645</u>		<u>.649</u>		<u>.647</u>		<u>.645</u>	
RVCN	<u>.001</u>		<u>.006</u>		<u>.006</u>		<u>.009</u>	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>4/7</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.49</u>	<u>8.32</u>	<u>12.14</u>	<u>14.77</u>	<u>9.57</u>	<u>3.50</u>	<u>1.08</u>
% P	<u>0.0</u>	<u>1.0</u>	<u>16.6</u>	<u>24.3</u>	<u>29.8</u>	<u>19.1</u>	<u>7.0</u>	<u>2.2</u>

Static Flow: 017.4Avg. Microns: 148.4Color L: 98.84 a 0.72 b 1.48Technician: McT & RHT



CERTIFICATE OF ANALYSIS

VISTA

Date: 5 July 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46440

Date of Shipment: 3 July 91

Order No.: 0000452-000

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

Moisture, %	ABR-1A	0.12
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.544
------------------------	--------------	-------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.00	1.1	16.3	23.4	27.8	19.6	9.2	2.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A CA CB B

0.014	0.076	0.001	0.016
0.66	0.67	0.65	0.66
2/ 9	5/ 13	6/ 11	4/ 15

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

A

PVC RAILCAR ANALYSIS

Load Date: 7-2-91 Product: 5265 Car No.: 2TCX 46440Time Logged In: 1600 Logged In By: MAShip Date: 3 July 91 Silo(s): 686, 687 Customer: CSU (Mirrex)
no initial 0000452-000

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.10		.10		.11		.12	
Contamination	$\frac{2}{9}$	—	$\frac{5}{13}$	—	$\frac{6}{11}$	—	$\frac{4}{15}$	—
Bulk Density	.544		.544		.540		.547	
BD w/antistat								
Viscosity	.663		.670		.649		.662	
RVCM	.014		.076		.001		.016	

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	<u>0.00</u>	<u>0.57</u>	<u>8.17</u>	<u>11.69</u>	<u>13.99</u>	<u>9.79</u>	<u>4.58</u>	<u>1.32</u>
%	<u>0.0</u>	<u>1.1</u>	<u>16.3</u>	<u>23.4</u>	<u>27.8</u>	<u>19.6</u>	<u>9.2</u>	<u>2.6</u>

Static Flow: 0 18.2Avg. Microns: 146.6Color L: 98.75 a 0.54 b 1.61Technician: Cot ES



CERTIFICATE OF ANALYSIS

VISTA

Date: 5 July 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45748

Date of Shipment: 2 July 91

Order No.: 0000134-012

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.09
Bulk Density, GM/CC	ABR-2A	0.530

Particle Size,
% on

ABR-3

40	60	80	100	120	140	200	PAN
0.00	0.2	9.7	20.8	30.9	22.7	11.8	3.9

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A CA CB B

0.117	0.107	0.109	0.121
0.72	0.71	0.71	0.72
4/ 8	2/ 6	5/ 10	4/ 12

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-26-91 Product: 5305 Car No.: 4-5748Time Logged In: 12:00 Logged In By: L.T.Ship Date: 2 July 91 Silo(s): 678680, 687688 Customer: Minex0000134-012No metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.06		.07		.04	

Contamination Syntron Method	<u>4/8</u>		<u>2/6</u>		<u>5/10</u>		<u>4/12</u>	
Wet Method								
Bulk Density	.534		.533		.525		.530	
BD w/antistat								
Viscosity	.715		.714		.714		.715	
RVCN	.117		.107		.109		.121	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>5/10</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>2.0</u>	<u>.08</u>	<u>4.84</u>	<u>10.38</u>	<u>15.07</u>	<u>11.36</u>	<u>5.92</u>	<u>1.93</u>
% P	<u>0.0</u>	<u>.2</u>	<u>9.7</u>	<u>20.8</u>	<u>30.9</u>	<u>22.7</u>	<u>11.8</u>	<u>3.9</u>

Static Flow: 0 18.2 % Glassies: < 1% Avg. Microns: 135.8Color L: 98.60 a 0.25 b 1.38 CPA: 18.4Technician: M.T & R.H



CERTIFICATE OF ANALYSIS

VISTA

Date: 3 July 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46583

Date of Shipment: 1 July 91

Order No.: 0000134-010

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

Moisture, %	ABR-1A	0.12
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.526
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.0	9.3	19.4	29.2	24.5	13.8	3.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

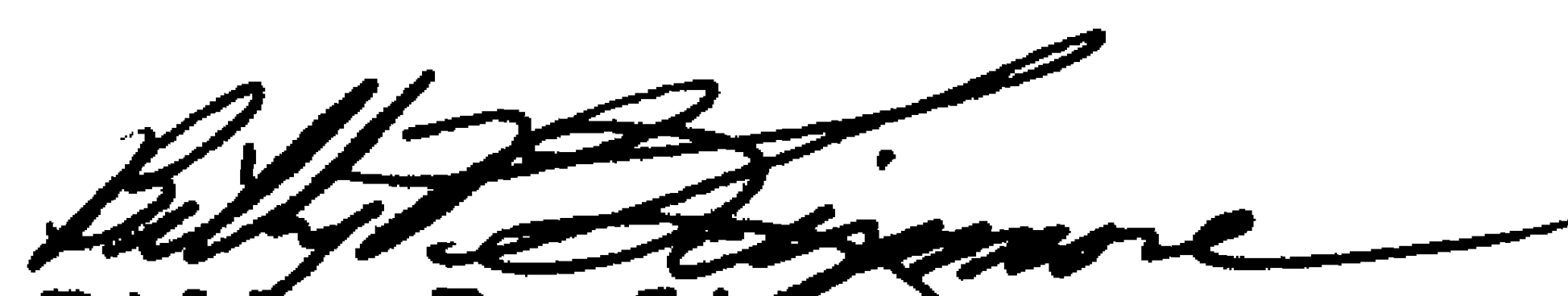
Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.036	0.066	0.028	0.036
0.72	0.72	0.72	0.72
4/ 4	3/ 6	2/ 4	3/ 4

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-30-91Product: 5305Car No.: 46583Time Logged In: 22:30Logged In By: DTShip Date: July 9/Silo(s): 678, 680, 687, 688Customer: Priney0000134-010NO METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.12		.08		.05	

Contamination
Synttron Method4/43/62/43/4

Wet Method

Bulk Density

.522.531.530.523

BD w/antistat

Viscosity

.717.722.722.718

RVCM

.036.066.028.036

Blown Film

Tappi Test
Contamination
Composite.06 or less.07 ----- .15.20 ----- .604/7

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.01</u>	<u>4.65</u>	<u>9.69</u>	<u>14.59</u>	<u>12.25</u>	<u>6.91</u>	<u>1.21</u>
%	<u>0.0</u>	<u>0.0</u>	<u>9.3</u>	<u>19.4</u>	<u>29.2</u>	<u>24.5</u>	<u>13.8</u>	<u>3.8</u>

Static Flow: 0, 8.5% Glassies: <1%Avg. Microns: 133.5Color L: 99.27a: 0.26b: 1.25CPA: 19.0Technician: DT & HDL



CERTIFICATE OF ANALYSIS

VISTA

Date: 3 July 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45898

Date of Shipment: 1 July 91

Order No.: 0000134-011

Property	Test Method	Analysis
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Moisture, %	ABR-1A	0.06
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.531
------------------------	--------------	-------

Particle Size,	ABR-3
----------------	-------

% on

40	60	80	100	120	140	200	PAN
0.00	0.0	7.0	17.3	29.6	26.7	15.6	3.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

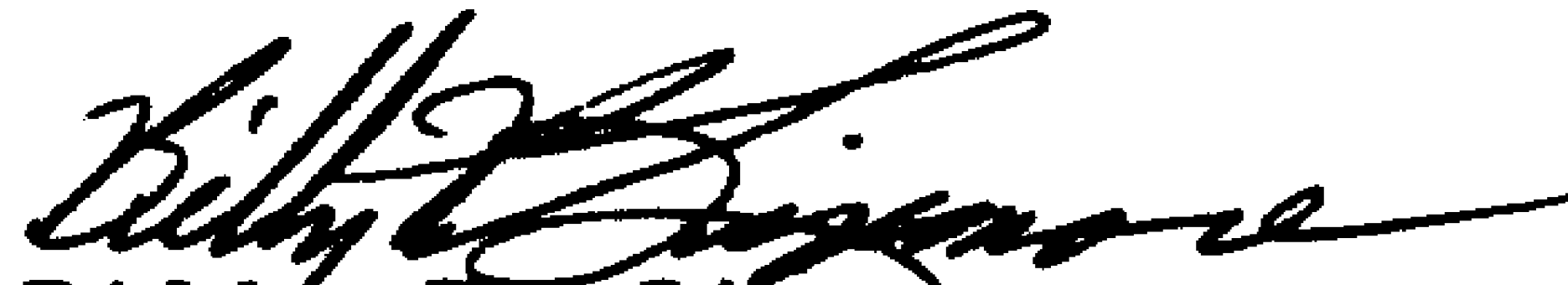
Made with decalcified water.

A CA CB B

0.218	0.231	0.012	0.010
0.72	0.72	0.73	0.72
3/ 4	4/ 2	3/ 3	2/ 4

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193288

PVC RAILCAR ANALYSIS

Load Date: 6-30-91 Product: 5305 Car No.: 45278Time Logged In: 22:30 Logged In By: J.T.Ship Date: 1 July 91 Silo(s): 678, 680, 687, 688 Customer: Phuray (CSE)
0000134-011No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.06		.05		.06	
Contamination Syntron Method	3/4		4/2		3/3		2/4	
Wet Method								
Bulk Density	.532		.532		.530		.531	
BD w/antistat								
Viscosity	.718		.719		.726		.720	
RVCM	.218		.231		.012		.010	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	4/6							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.01</u>	<u>3.51</u>	<u>8.65</u>	<u>14.76</u>	<u>13.34</u>	<u>7.80</u>	<u>1.92</u>
%	<u>0.0</u>	<u>0.0</u>	<u>7.0</u>	<u>17.3</u>	<u>29.6</u>	<u>26.7</u>	<u>15.6</u>	<u>3.8</u>

Static Flow: 0 18.3 % Glassies: 41% Avg. Microns: 129.9Color L: 99.27 a 0.24 b 1.27 CPA: 19.3Technician: D.T. + H.D.L.

PVC RAILCAR ANALYSIS

Load Date: 2-12-91

Product:

5265

Car No.:

UTCX
46442Time Logged In: 1100Logged In By: TEShip Date: 3-15-91Silo(s): 687-688

Customer:

CSU Bids Terminal
(Am. Mirrex)
900738-003

NO MGA/	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.10		.11		.04	
Contamination	<u>5</u> 9	—	<u>2</u> 12	—	<u>2</u> 5	—	<u>4</u> 7	—
Bulk Density	.543		.542		.547		.547	
BD w/antistat								
Viscosity	.655		.660		.659		.674	
RVCN	.081		.082		.086		.079	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>5/8</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.03</u>	<u>3.50</u>	<u>7.18</u>	<u>17.54</u>	<u>13.15</u>	<u>7.14</u>	<u>1.20</u>
%	<u>0.0</u>	<u>0.1</u>	<u>7.0</u>	<u>14.4</u>	<u>35.5</u>	<u>26.3</u>	<u>14.3</u>	<u>2.4</u>

Static Flow: 0.18.3Avg. Microns: 131.4Color L: 98.81 a 0.59 b 1.51Technician: TE - JPS

CERTIFICATE OF ANALYSIS

Date: 3-18-91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynn Webb

Railcar No.: UTCX-46442

Date of Shipment: 3-15-91

Order No.: 900738-003

<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,	ABR-3	
% on		

40	60	80	100	120	140	200	PAN
0.00	0.1	7.0	14.4	35.5	26.3	14.3	2.4

BY COMPARTMENT

Residual VCM, PPM	ABGC-26		
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Inherent Viscosity	ABR-10B		
--------------------	---------	--	--

Contamination,

Syntron, Blk/Brn	ABR-5A		
------------------	--------	--	--

A	CA	CB	B
0.081	0.082	0.086	0.079
0.66	0.66	0.66	0.67
5/ 9	2/ 12	7/ 5	4/ 7

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

Date: 7 June 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-4115B

Date of Shipment: 4 June 91

Order No.: 0000097-002

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

Moisture, %	ABR-1A	0.11
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.524
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.9	13.6	21.4	29.3	21.8	10.4	2.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

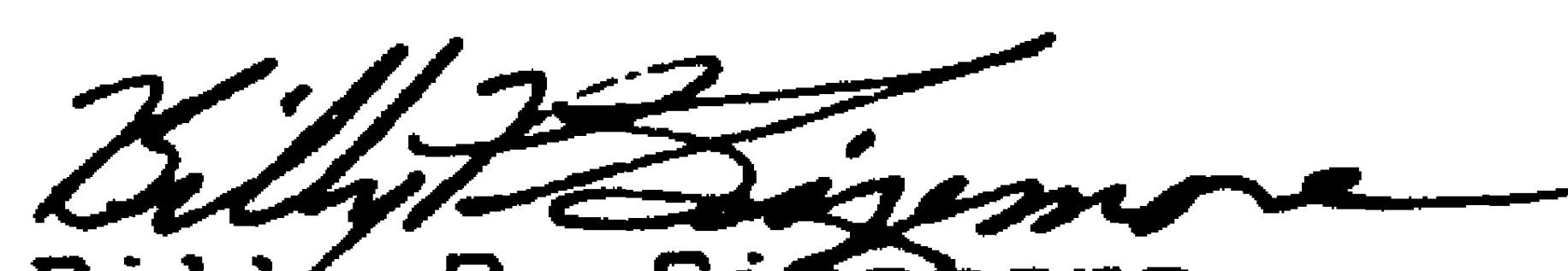
Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.035	0.048	0.041	0.000
0.73	0.73	0.73	0.73
4/ 6	2/ 5	3/ 6	5/ 6

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111



PVC RAILCAR ANALYSIS

Load Date: 6-3-91Product: 5305Car No.: 41158Time Logged In: 1030Logged In By: MAJShip Date: 4 June 91 Silo(s): 680, 678Customer: CSX0000097-002no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.11		.09		.10	
Contamination Syntron Method	4/6		2/5		3/6		5/6	
Wet Method								
Bulk Density	.522		.525		.524		.523	
BD w/antistat								
Viscosity	.733		.728		.727		.725	
RVCM	.035		.048		.052		.041	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/3							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.44</u>	<u>6.82</u>	<u>10.68</u>	<u>14.74</u>	<u>10.92</u>	<u>5.19</u>	<u>1.28</u>
%	<u>0.0</u>	<u>.9</u>	<u>13.6</u>	<u>21.4</u>	<u>29.3</u>	<u>21.8</u>	<u>10.4</u>	<u>2.6</u>

Static Flow: 0 111.1% Glassies: <1%Avg. Microns: 142.5Color L: 97.73 a .74 b 3.06 CPA: 19.6Technician: MAJ & TE



CERTIFICATE OF ANALYSIS

VISTA

Date: 7 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46553

Date of Shipment: 4 June 91

Order No.: 0000097-001

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

Moisture, %	ABR-1A	.03
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.546
------------------------	--------------	------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.0	4.0	21.1	24.6	27.4	14.8	6.1	2.0

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
.001	.059	.001	.046
.73	.72	.72	.72
5 / 4	4 / 4	5 / 7	4 / 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

(A) NTEX

PVC RAILCAR ANALYSIS

Load Date: 5-2-91 Product: 5305 Car No.: 46553

Time Logged In: 1700 Logged In By: Co

Ship Date: 4 June 91 Silo(s): 687, 688 Customer: CSX
0000097-001

No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.02		.02		.02		.03	

Contamination Syntron Method	5/4		4/4		5/7		4/7	
Wet Method								
Bulk Density	.538		.549		.556		.552	
BD w/antistat								
Viscosity	.729		.721		.723		.718	
RVCM	.001		.059		.001		.046	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	4/9		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.98</u>	<u>10.54</u>	<u>12.30</u>	<u>13.57</u>	<u>7.41</u>	<u>3.03</u>	<u>1.02</u>
%	<u>0.0</u>	<u>4.0</u>	<u>21.1</u>	<u>24.6</u>	<u>20.4</u>	<u>14.8</u>	<u>6.1</u>	<u>2.0</u>

Static Flow: 0 18.3 % Glassies: <1% Avg. Microns: 159.4

Color L: 97.98 a 0.90 b 2.31 CPA: 18.0

Technician: P.T. HPL

PVC RAILCAR ANALYSIS

Load Date: 6-24-91Product: 5305Car No.: 46565Time Logged In: 11:30Logged In By: ETShip Date: 6-25-91Silo(s): 678, 680, 687Customer: CSL (Miner)0000134-009

NOMENCLATURE	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.16		.15		.16		.18	
Contamination Syntron Method	4/9		3/10		6/12		3/10	
Wet Method								
Bulk Density	.525		.535		.534		.528	
BD w/antistat								
Viscosity	.722		.716		.719		.720	
RVCN	.013		.025		.014		.017	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/8							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.02</u>	<u>4.27</u>	<u>9.52</u>	<u>14.85</u>	<u>12.34</u>	<u>6.68</u>	<u>2.09</u>
%	<u>0.0</u>	<u>0.0</u>	<u>8.5</u>	<u>19.0</u>	<u>30.2</u>	<u>24.7</u>	<u>13.4</u>	<u>4.2</u>

Static Flow: 0.187% Glassies: < 1%Avg. Microns: 132.6Color L: 99.54a 0.12 b 1.20CPA: 17.7Technician: G + TE

1118-692 (109) 8004

Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 26 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46563

Date of Shipment: 25 June 91

Order No.: 0000134-009

Property	Test Method	Analysis
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Moisture, %	ABR-1A	0.18
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Bulk Density, GM/CC	ABR-2A	0.530
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.0	8.5	19.0	30.2	24.7	13.4	4.2

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

Made with decalcified water.

A	CA	CB	B
0.013	0.025	0.014	0.017
0.72	0.72	0.72	0.72
4/ 9	3/ 10	6/ 12	3/ 10

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

VAB.0001193297



PVC RAILCAR ANALYSIS

 Load Date: 6-24-91 Product: 5305 Car No.: 73412 GACX

 Time Logged In: 0500 Logged In By: CO

 Ship Date: 6-25-91 Silo(s): 683-684 Customer: CSX
0000134-008 MIRREX
No MemL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.08		.04		.04	
Contamination Syntron Method	12/12		11/5		15/3		7/2	
Wet Method								
Bulk Density	.534		.530		.544		.544	
BD w/antistat								
Viscosity	.717		.714		.720		.719	
RVCM	.167		.402		.067		.005	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	8/10							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.06</u>	<u>4.04</u>	<u>8.62</u>	<u>13.98</u>	<u>13.04</u>	<u>8.38</u>	<u>1.90</u>
%	<u>0.0</u>	<u>0.1</u>	<u>8.1</u>	<u>17.2</u>	<u>27.9</u>	<u>26.1</u>	<u>16.8</u>	<u>3.8</u>

 Static Flow: 0 184 % Glassies: <1% Avg. Microns: 130.5

 Color L: 98.76 a 0.20 b 1.16 CPA: 18.5

 Technician: P.T.F.M.B.

CERTIFICATE OF ANALYSIS

Date: 26 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: GACX-73412

Date of Shipment: 25 June 91

Order No.: 0000134-008

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.08
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.53B
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.1	8.1	17.2	27.9	26.1	16.8	3.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.167	0.402	0.067	0.005
0.72	0.71	0.72	0.72
12/ 12	11/ 5	15/ 3	7/ 2

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

A

PVC RAILCAR ANALYSIS

Load Date: 6/23/91 Product: 5305Car No.: 44567Time Logged In: 1200Logged In By: JS LShip Date: 6-24-91Silo(s): 687/688Customer: Murphy (CSU)

000097-004

no metal

Sug	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.13		.14		.16	

Contamination Syntron Method	2/9		3/3		2/13		2/6	
Wet Method								
Bulk Density	.538		.536		.538		.543	
BD w/antistat								
Viscosity	.682	.741	.685	.734	.689	.735	.691	.725
RVCM	.075		.081		.067		.078	
Blown Film								

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

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	.16	5.01	9.45	14.22	12.50	7.18	1.69
%	0.0	.3	10.0	18.9	28.0	25.0	14.4	3.4

Static Flow: 0.85 % Glassies: 1% Avg. Microns: 134.5Color L: 98.96 a 0.21 b 1.28 CPA: 17.5Technician: G + TE

CERTIFICATE OF ANALYSIS

Date: 26 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: PLWX-44567

Date of Shipment: 24 June 91

Order No.: 0000097-004

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.16
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.539
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.3	10.0	18.9	28.0	25.0	14.4	3.4

BY COMPARTMENT

Residual VCM, PPM	ABGC-26	A	CA	CB	B
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Inherent Viscosity	ABR-10B	A	CA	CB	B
--------------------	---------	---	----	----	---

Contamination,		A	CA	CB	B
----------------	--	---	----	----	---

Syntron, Blk/Brn	ABR-5A	A	CA	CB	B
------------------	--------	---	----	----	---

Made with decalcified water.

0.075	0.081	0.067	0.078
0.74	0.73	0.74	0.73
2/ 9	3/ 3	7/ 13	2/ 6

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193301

PVC RAILCAR ANALYSIS

Load Date: 6-21-91Product: 5305Car No.: 46556 ^{UTX}Time Logged In: 1400Logged In By: TALICShip Date: 6-24-91Silo(s): 688-687Customer: Miner (CSU)

0000097-003

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.11		.09		.12		.13	
Contamination Syntron Method	4/8		2/6		5/7		8/8	
Wet Method								
Bulk Density	.538		.541		.533		.538	
BD w/antistat								
Viscosity	.717		.713		.717		.717	
RVCM	.002		.008		.064		.001	
Blown Film								
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>.10</u>	<u>4.55</u>	<u>8.33</u>	<u>13.79</u>	<u>13.52</u>	<u>8.31</u>	<u>1.86</u>
%	<u>0.0</u>	<u>.2</u>	<u>9.1</u>	<u>16.7</u>	<u>26.7</u>	<u>27.0</u>	<u>16.6</u>	<u>3.7</u>

Static Flow: 0 18.0% Glassies: 41%Avg. Microns: 131.3Color L: 99.12 a .27 b 1.52 CPA: 18.8Technician: MATE

CERTIFICATE OF ANALYSIS

Date: 25 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46556

Date of Shipment: 24 June 91

Order No.: 0000097-003

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.13
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.538
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.2	9.1	16.7	26.7	27.0	16.6	3.7

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.002	0.008	0.064	0.101
0.72	0.71	0.72	0.72
4/ 8	2/ 6	5/ 7	8/ 8

All particles of contamination are less than .07mm² in size.

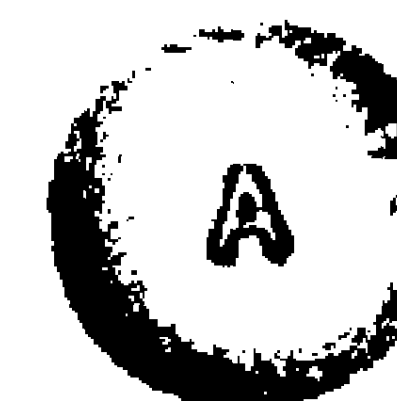
This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193303



CERTIFICATE OF ANALYSIS

Date: 24 June 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46407

Date of Shipment: 21 June 91

Order No.: 0000134-004

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

Moisture, %	ABR-1A	0.13
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.539
------------------------	--------------	-------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.00	0.1	8.8	18.7	28.2	25.2	15.5	3.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.125	0.051	0.129	0.070
0.72	0.73	0.72	0.74
3/ 10	4/ 9	3/ 11	2/ 10

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-20-91 Product: 5305 Car No.: 46407

Time Logged In: 0600 Logged In By: Lo

Ship Date: 21 June 91 Silo(s): 683 Customer: Miner (CS4)
0000134-004

No metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.13		.10		.13		.13	
Contamination Syntron Method	3/10		4/9		3/11		2/10	
Wet Method								
Bulk Density	.529		.549		.529		.548	
BD w/antistat								
Viscosity	.720		.734		.724		.736	
RVCM	.125		.051		.129		.070	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/8							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.03</u>	<u>4.40</u>	<u>9.34</u>	<u>14.12</u>	<u>12.61</u>	<u>7.76</u>	<u>1.74</u>
% P	<u>0.0</u>	<u>.1</u>	<u>8.8</u>	<u>18.7</u>	<u>28.2</u>	<u>25.2</u>	<u>15.5</u>	<u>3.5</u>

Static Flow: 0 19.0 % Glassies: 21.0% Avg. Microns: 132.5

Color L: 99.20 a 0.18 b 1.35 CPA: 19.0

Technician: MIT & RH

CERTIFICATE OF ANALYSIS

VISTA

Date: 24 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-45799

Date of Shipment: 21 June 91

Order No.: 0000134-005

Property Test Method Analysis

Moisture, % ABR-1A 0.07

Bulk Density, ABR-2A 0.538
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.1	8.3	18.0	28.1	25.0	16.8	3.7

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.003	0.004	0.058	0.037
0.73	0.72	0.72	0.72
6/ 3	4/ 8	5/ 7	6/ 5

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

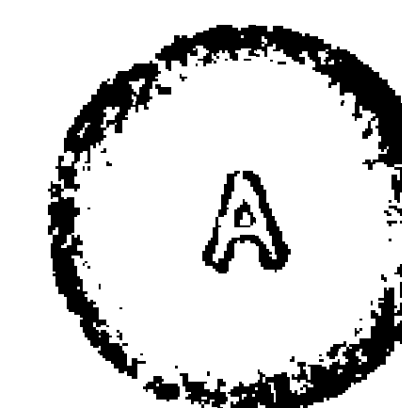
Load Date: 6-21-91 Product: 5305 Car No.: 45799Time Logged In: 1100 Logged In By: JSShip Date: 21 June 91 Silo(s): 680 Customer: Phurix-Csef
0000134-005no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.07		.06		.04		.07	
Contamination Syntron Method	6/3		4/8		5/7		6/5	
Wet Method								
Bulk Density	.540		.538		.538		.537	
BD w/antistat								
Viscosity	.125		.119		.111		.117	
RVCM	.003		.004		.058		.037	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/5							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.05</u>	<u>4.17</u>	<u>9.00</u>	<u>13.96</u>	<u>12.48</u>	<u>8.39</u>	<u>1.84</u>
% <u>P</u>	<u>0.0</u>	<u>0.1</u>	<u>8.3</u>	<u>18.0</u>	<u>28.1</u>	<u>25.0</u>	<u>16.8</u>	<u>3.7</u>

Static Flow: 0 18.8 % Glassies: 21% Avg. Microns: 131.2Color L: 99.08 a 0.27 b 1.50 CPA: 18.5Technician: M.T & R#



CERTIFICATE OF ANALYSIS

VISTA

Date: 22 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45804

Date of Shipment: 19 June 91

Order No.: 0000134-003

Property	Test Method	Analysis
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Moisture, %	ABR-1A	0.11
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.539
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	3.7	14.7	19.1	29.0	21.3	9.2	3.0

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

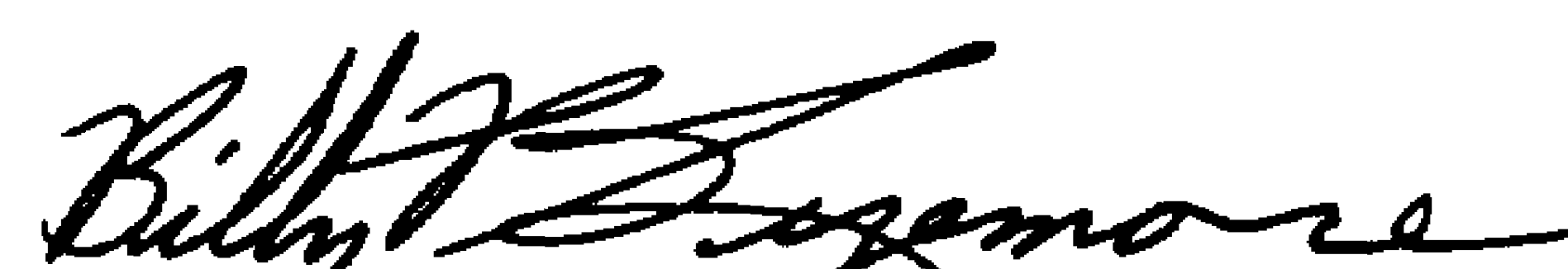
Made with decalcified water.

A CA CB B

0.120	0.118	0.138	0.011
0.73	0.73	0.73	0.73
4/ 15	3/ 18	4/ 12	3/ 11

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-17-91 Product: 5305 Car No.: 45804

Time Logged In: 1300 Logged In By: MM

Ship Date: 19 June 91 Silo(s): 679, 680 Customer: CSK (Mumuk)
0000134-003

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.11		.06		.09	
Contamination Syntron Method	4/15		3/18		4/12		3/11	
Wet Method								
Bulk Density	.539		.541		.540		.537	
BD w/antistat								
Viscosity	.726		.728		.727		.727	
RVCM	.120		.118		.138		.011	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/12							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.86</u>	<u>7.35</u>	<u>9.56</u>	<u>19.88</u>	<u>10.65</u>	<u>4.60</u>	<u>1.52</u>
%	<u>0.0</u>	<u>3.7</u>	<u>14.7</u>	<u>19.1</u>	<u>29.0</u>	<u>21.3</u>	<u>9.2</u>	<u>3.0</u>

Static Flow: 0 17.2 % Glassies: <1% Avg. Microns: 148.6

Color L: 99.43 a .29 b 1.45 CPA: 19.7

Technician: MM YTE



CERTIFICATE OF ANALYSIS

VISTA

Date: 22 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45897

Date of Shipment: 17 June 91

Order No.: 0000134-002

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	.07
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.557
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.1	7.5	14.7	23.6	26.3	22.9	4.9

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
.028	.017	.009	.006
.72	.72	.72	.72
2 /26	1 /17	0 /11	1 /11

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-13-91 Product: 5305 Car No.: 4587

Time Logged In: 1400 Logged In By: E

Ship Date: 17 June 91 Silo(s): 688 Customer: Niney
0000134-002

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.07		.06		.06		.07	
Contamination Syntron Method	2/26		1/17		0/20		1/11	
Wet Method								
Bulk Density	.557		.556		.556		.557	
BD w/antistat								
Viscosity	.721		.721		.722		.722	
RVCM	.028		.017		.009		.006	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/5							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.06</u>	<u>3.74</u>	<u>7.28</u>	<u>11.81</u>	<u>13.15</u>	<u>11.46</u>	<u>2.46</u>
%	<u>0.0</u>	<u>.1</u>	<u>7.5</u>	<u>14.7</u>	<u>23.6</u>	<u>26.3</u>	<u>22.9</u>	<u>4.9</u>

Static Flow: 0, 86 % Glassies: 21% Avg. Microns: 125.3

Color L: 99.0% a .46 b 1.62 CPA: 17.6

Technician: GFJS



CERTIFICATE OF ANALYSIS

VISTA

Date: 22 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46492

Date of Shipment: 14 June 91

Order No.: 0000134-001

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.01
Bulk Density, GM/CC	ABR-2A	0.556

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.2	8.7	18.2	27.1	25.5	16.8	3.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.217	0.154	0.024	0.298
0.72	0.73	0.73	0.72
3/ 4	2/ 5	1/ 4	3/ 4

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-12-91 Product: 5305 Car No.: 46492Time Logged In: 17:00 Logged In By: D.T.Ship Date: 14 Silo(s): 678+680 Customer: C5X0000134-001No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.01		.01		.01		.01	
Contamination Synttron Method	3/4		2/5		1/4		3/4	
Wet Method								
Bulk Density	.559		.547		.559		.559	
BD w/antistat								
Viscosity	.722		.726		.729		.722	
RVCM	.217		.154		.024		.298	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	7/6							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.08</u>	<u>4.35</u>	<u>9.08</u>	<u>13.61</u>	<u>12.76</u>	<u>8.40</u>	<u>1.75</u>
%	<u>0.00</u>	<u>.2</u>	<u>8.7</u>	<u>19.2</u>	<u>27.1</u>	<u>25.5</u>	<u>16.8</u>	<u>3.5</u>

Static Flow: 0 17.9 % Glassies: 21% Avg. Microns: 131.8Color L: 99.16 a 0.59 b 1.79 CPA: 15.2Technician: MT + RJHResample - 21.3
6-13-91

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: 19 June 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynne Webb

Railcar No.: PLCX-43862

Date of Shipment: 7 June 91

Order No.: 0000166-002

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

Moisture, %	ABR-1A	0.12
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.544
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	2.3	22.2	25.7	28.2	14.8	4.6	2.2

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

A CA CB B

0.001	0.061	0.067	0.063
0.67	0.66	0.65	0.66
3/ 7	5/ 11	4/ 13	2/ 8


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 6-5-91 Product: 5265 Car No.: PLCX 43862Time Logged In: 1700 Logged In By: MAShip Date: 7 June 91 Silo(s): 680, 686, 688 Customer: C8X0000166-002no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.04		.07		.12	
Contamination	$\frac{3}{7}$	—	$\frac{5}{11}$	—	$\frac{4}{13}$	—	$\frac{2}{8}$	—
Bulk Density	.538		.540		.545		.554	
BD w/antistat								
Viscosity	.667		.655		.652		.656	
RVCM	.001		.061		.067		.063	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>3/8</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.16</u>	<u>11.12</u>	<u>12.85</u>	<u>14.03</u>	<u>7.38</u>	<u>2.30</u>	<u>1.01</u>
%	<u>0.0</u>	<u>2.3</u>	<u>22.2</u>	<u>25.7</u>	<u>28.2</u>	<u>14.8</u>	<u>4.6</u>	<u>2.2</u>

Static Flow: 0 17.7Avg. Microns: 157.7Color L: 98.30 a .68 b 1.99Technician: COV E5

CERTIFICATE OF ANALYSIS

VISTA

Date: 19 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45820

Date of Shipment: 6 June 91

Order No.: 0000097-000

Property Test Method Analysis

Moisture, % ABR-1A 0.12

Bulk Density, ABR-2A 0.549
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.5	12.1	19.5	27.5	22.2	14.9	3.3

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.043	0.044	0.001	0.001
0.73	0.73	0.72	0.73
4/ 7	5/ 8	4/ 9	3/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

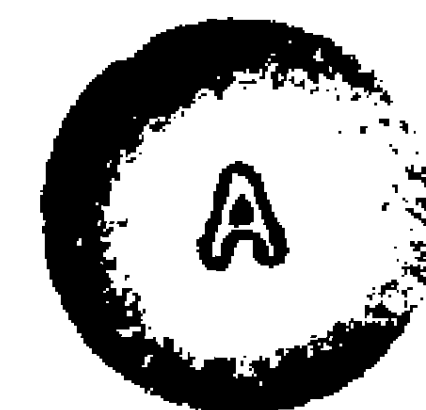
Load Date: 6/3/91Product: 5305Car No.: 15820Time Logged In: 2400Logged In By: ADLShip Date: 6 June 91Silo(s): 683/684Customer: CSL (Miner)0000134-000no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.09		.11		.12		.10	
Contamination Syntron Method	4/7		5/8		4/9		3/7	
Wet Method								
Bulk Density	.546		.551		.548		.549	
BD w/antistat								
Viscosity	.725		.726		.719		.725	
RVCM	.043		.044		.001		.001	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/7							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.27</u>	<u>6.04</u>	<u>9.77</u>	<u>13.84</u>	<u>11.08</u>	<u>7.44</u>	<u>1.65</u>
%	<u>0.0</u>	<u>.5</u>	<u>12.1</u>	<u>19.5</u>	<u>27.5</u>	<u>22.2</u>	<u>14.9</u>	<u>3.3</u>

Static Flow: 0 17.2% Glassies: <1%Avg. Microns: 19.5Color L: 99.20a .59b 2.34CPA: ~~137.2~~ 137.2Technician: MATE



CERTIFICATE OF ANALYSIS

Date: 27 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46456

Date of Shipment: 25 June 91

Order No.: 0000134-007

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
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Moisture, %	ABR-1A	0.13
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.533
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.1	8.8	18.5	30.2	24.8	14.2	3.4

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	
0.081	0.065	0.018	
0.72	0.72	0.72	
4/ 6	2/ 7	3/ 5	

All particles of contamination are less than .07mm² in size.

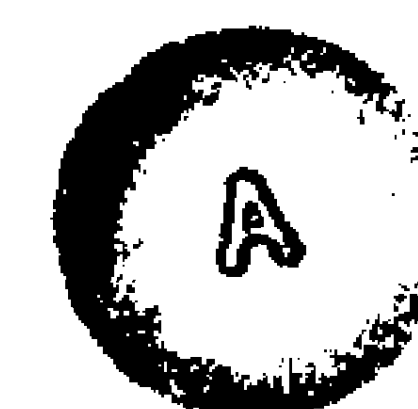
This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193318



CERTIFICATE OF ANALYSIS

Date: 27 June 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46456

Date of Shipment: 25 June 91

Order No.: 0000134-007

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.13
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.533
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.1	8.8	18.5	30.2	24.8	14.2	3.4

BY COMPARTMENT

Residual VCM, PPM ABGC-26

A	CA	CB	
0.081	0.065	0.018	Inherent 0.72
Viscosity ABR-10B			
0.72	0.72		

Contamination,

Syntron, Blk/Brn ABR-5A

4/ 6	2/ 7	3/ 5	Made
with decalcified water.			

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

VAB.0001193319

PVC RAILCAR ANALYSIS

Load Date: 6-22-91 Product: 5305Car No.: 46455Time Logged In: 1300Logged In By: TALLIEShip Date: 6-25-91 Silo(s): 678-680Customer: MIRREX

0000134-007

no metal

MIRREX DIDN'T USE

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.11		.13		.10	
Contamination Syntron Method	<u>4/6</u>		<u>2/7</u>		<u>3/5</u>		<u>6/25</u>	
Wet Method								
Bulk Density	.536		.535		.529		.533	
BD w/antistat								
Viscosity	.719		.722		.718			
RVCN	.081		.065		.018		.070	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>2/5</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.06</u>	<u>4.41</u>	<u>9.27</u>	<u>14.39</u>	<u>12.42</u>	<u>7.10</u>	<u>1.69</u>
%	<u>0.0</u>	<u>.1</u>	<u>8.8</u>	<u>18.5</u>	<u>30.2</u>	<u>24.8</u>	<u>14.2</u>	<u>3.4</u>

Static Flow: 0 18.6 % Glassies: <1% Avg. Microns: 133.3Color L: 99.18 a .15 b 1.46 CPA: 18.8Technician: MKT+TE



CERTIFICATE OF ANALYSIS

Date: 27 June 91

FAX No. 302-836-5972

CUSTOMER: AMERICAN Mirror
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45757

Date of Shipment: 24 June 91

Order No.: 0000134-006

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

Moisture, %	ABR-1A	0.14
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.536
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.0	7.7	18.2	29.2	26.0	15.1	3.8

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

Made with decalcified water.

A	CA	CB	B
---	----	----	---

0.027	0.078	0.315	0.006
0.74	0.73	0.71	0.72
6/ 12	6/ 8	6/ 7	7/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193321

PVC RAILCAR ANALYSIS

Load Date: 6-22-91 Product: 5305 Car No.: 45757 VIPX

Time Logged In: 2400 Logged In By: MT

Ship Date: 6-24-91 Silo(s): 683, 684 Customer: Priney (CSX)
0080134-006

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.02		.03		.14		.03	
Contamination Syntron Method	6/12		6/8		6/7		7/7	
Wet Method								
Bulk Density	547		.541		.529		528	
BD w/antistat								
Viscosity	702	740	704	731	713		722	
RVCM	.027		.078		.315		.006	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>5/8</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>0.02</u>	<u>3.85</u>	<u>9.12</u>	<u>14.60</u>	<u>13.82</u>	<u>7.55</u>	<u>1.90</u>
% <u>P</u>	<u>0.0</u>	<u>0.0</u>	<u>7.7</u>	<u>18.2</u>	<u>29.2</u>	<u>26.0</u>	<u>15.1</u>	<u>3.8</u>

Static Flow: 0.17.6 % Glassies: <1% Avg. Microns: 131.0

Color L: 99.21 a 0.26 b 1.20 CPA: 18.3

Technician: MT

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

VISTA

Date: 30 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46506

Date of Shipment: 28 May 91

Order No.: 897918-062

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.11
Bulk Density, GM/CC	ABR-2A	0.534

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	2.1	23.8	29.1	25.9	12.1	5.0	2.0

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.094	0.092	0.001	0.105
0.72	0.72	0.72	0.72
3/ 8	2/ 10	2/ 3	3/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193323

PVC RAILCAR ANALYSIS

Load Date: 5-29-91 Product: 5305 Car No.: 46506

Time Logged In: 1300 Logged In By: MT

Ship Date: 28 May 91 Silo(s): 680-688 Customer: CSX (Miner)
897918-062

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.09		.11		.10	
Contamination Syntron Method	3/8		2/10		2/3		3/7	
Wet Method								
Bulk Density	.533		.536		.534		.531	
BD w/antistat								
Viscosity	.716		.718		.722		.722	
RVCM	.094		.092		.001		.105	
Blown Film								
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>1.04</u>	<u>11.91</u>	<u>14.54</u>	<u>12.87</u>	<u>6.07</u>	<u>2.48</u>	<u>1.00</u>
%	<u>0.0</u>	<u>2.1</u>	<u>23.8</u>	<u>29.1</u>	<u>25.9</u>	<u>12.1</u>	<u>5.0</u>	<u>2.0</u>

Static Flow: 0 18.3 % Glassies: <1% Avg. Microns: 160.0

Color L: 97.64 a .86 b 2.21 CPA: 18.8

Technician: MT + TE

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Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

VISTA

Date: 29 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41164

Date of Shipment: 24 May 91

Order No.: 897918-061

Property Test Method Analysis

Moisture, % ABR-1A 0.09

Bulk Density, ABR-2A 0.550
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	2.3	21.3	25.5	26.1	14.9	7.2	2.7

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.065	0.150	0.101	0.001
0.73	0.72	0.73	0.72
2/ 5	3/ 7	4/ 6	2/ 5

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193325



PVC RAILCAR ANALYSIS

Load Date: 5-21-91Product: 5305Car No.: 41164Time Logged In: 1300Logged In By: MSShip Date: 24 May 91Silo(s): 684, 687Customer: Muney (CS4)897918-061no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.05		.09		.04	

Contamination Syntron Method	<u>2/5</u>		<u>3/7</u>		<u>4/6</u>		<u>3/5</u>	
Wet Method								
Bulk Density	<u>.563</u>		<u>.546</u>		<u>.548</u>		<u>.545</u>	
BD w/antistat								
Viscosity	<u>.729</u>		<u>.719</u>		<u>.725</u>		<u>.724</u>	
RVCM	<u>.065</u>		<u>.150</u>		<u>.101</u>		<u>.001</u>	
Blown Film								

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>1.14</u>	<u>10.64</u>	<u>12.74</u>	<u>13.23</u>	<u>7.45</u>	<u>3.62</u>	<u>1.35</u>
%	<u>0.0</u>	<u>2.3</u>	<u>21.3</u>	<u>25.5</u>	<u>26.1</u>	<u>14.9</u>	<u>7.2</u>	<u>2.7</u>

Static Flow: 0, 8.8 % Glassies: 21% Avg. Microns: 155.2Color L: 98.61 a .66 b 2.49 CPA: 18.6Technician: GS + ES

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CERTIFICATE OF ANALYSIS

A

VISTA

Date: 23 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: PLWX-44680

Date of Shipment: 21 May 91

Order No.: 897918-060

Property Test Method Analysis

Moisture, % ABR-1A 0.02

Bulk Density, ABR-2A 0.553
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	3.0	24.8	26.3	25.0	12.8	6.2	1.9

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.001	0.001	0.001	0.001
0.72	0.73	0.73	0.73
4/ 7	3/ 6	9/ 7	4/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193327

PVC RAILCAR ANALYSIS

Load Date: 5-20-91Product: 5305Car No.: PLWX 44680Time Logged In: 1400Logged In By: MKJShip Date: 21 May 91Silo(s): 687, 680Customer: CSX897918-060No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.02		.02		.02		.02	
Contamination Syntron Method	4/7		3/6		9/7		4/7	
Wet Method								
Bulk Density	.550		.553		.554		.556	
BD w/antistat								
Viscosity	.722		.732		.729		.732	
RVCM	.001		.001		.001		.001	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	5/11							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>1.52</u>	<u>12.42</u>	<u>13.17</u>	<u>12.50</u>	<u>6.40</u>	<u>3.12</u>	<u>0.95</u>
%	<u>0.0</u>	<u>3.0</u>	<u>24.8</u>	<u>26.3</u>	<u>25.0</u>	<u>12.8</u>	<u>6.2</u>	<u>1.9</u>

Static Flow: 10.5 % Glassies: <1% Avg. Microns: 161.2Color L: 98.35 a 0.71 b 2.33 CPA: 17.0Technician: P.T. + HPL

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Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

VISTA

Date: 21 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41145

Date of Shipment: 20 May 91

Order No.: 897918-059

Property Test Method Analysis

Moisture, % ABR-1A 0.13

Bulk Density, ABR-2A 0.545
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	1.0	26.5	32.2	25.0	10.0	3.2	2.1

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.065	0.028	0.667	0.597
0.72	0.72	0.73	0.73
2/ 7	3/ 5	2/ 4	4/ 9

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193329

PVC RAILCAR ANALYSIS

ACFX Load Date: 5-17-91 Product: 5305 Car No.: 41145Time Logged In: 1300 Logged In By: CShip Date: 20 May 91 Silo(s): 683 Customer: Minex
Samples in Jugs 897918-059No Metal

	(A)		(CA)		(CB)		(B)	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.08		.13		.07		.07	
Contamination Syntron Method	2/7		3/5		2/4		4/9	
Wet Method								
Bulk Density	.540		.537		.552		.551	
BD w/antistat								
Viscosity								
RVCN	.721		.724		.725		.725	
Blown Film	.065		.028		.667		.591	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/10							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.48</u>	<u>13.25</u>	<u>16.08</u>	<u>12.32</u>	<u>4.98</u>	<u>1.61</u>	<u>1.07</u>
%	<u>0.0</u>	<u>1.0</u>	<u>26.5</u>	<u>32.2</u>	<u>25.0</u>	<u>10.0</u>	<u>3.2</u>	<u>2.1</u>

Static Flow: 0.18.8 % Glassies: L1% Avg. Microns: 162Color L: 99.15 a 0.04 b 0.94 CPA: 18.6Technician: Ce + ES

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A

CERTIFICATE OF ANALYSIS

Date: 20 May 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynne Webb

Railcar No.: VIPX-45767

Date of Shipment: 17 May 91

Order No.: 900738-007

Property Test Method Analysis

Moisture, % ABR-1A 0.06

Bulk Density, ABR-2A 0.535
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.7	15.0	24.1	30.1	19.8	7.5	2.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

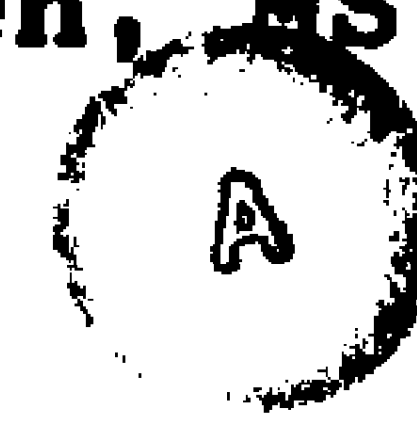
A	CA	CB	B
0.031	0.471	0.076	0.073
0.66	0.65	0.66	0.66
2/ 5	3/ 5	2/ 4	3/ 4


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193331



PVC RAILCAR ANALYSIS

VIPX

Load Date: 4-13-91 Product: 5265 Car No.: 45767Time Logged In: 1030 Logged In By: AJShip Date: 17 May 91 Silo(s): 678.680 Customer: CSX
900 738-007No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.06		.04		.05	
Contamination	$\frac{2}{5}$	—	$\frac{3}{5}$	—	$\frac{2}{4}$	—	$\frac{2}{4}$	—
Bulk Density	.542		.545		.525		.528	
BD w/antistat								
Viscosity	.656		.650		.655		.658	
RVCM	.031		.471		.076		.073	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	$\frac{3}{7}$		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.37</u>	<u>7.49</u>	<u>12.06</u>	<u>15.43</u>	<u>9.88</u>	<u>3.75</u>	<u>1.38</u>
%	<u>0.00</u>	<u>.7</u>	<u>15.0</u>	<u>24.1</u>	<u>30.1</u>	<u>19.8</u>	<u>7.5</u>	<u>2.8</u>

Static Flow: 0.76Avg. Microns: 145.5Color L: 78.57 a 0.61 b 1.53Technician: AJ + R3L

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Phone (601) 369-8111

4

CERTIFICATE OF ANALYSIS

Date: 20 May 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46548

Date of Shipment: 17 May 91

Order No.: 897918-058

Property Test Method Analysis

Moisture, % ABR-1A 0.12

Bulk Density, ABR-2A 0.550
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.2	7.8	19.2	31.7	25.2	13.6	2.3

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A CA CB B

0.079	0.071	0.067	0.077
0.73	0.73	0.73	0.73
6/ 9	4/ 5	2/ 9	3/ 6

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193333

PVC RAILCAR ANALYSIS


 Load Date: 5-8-91 Product: 5305 Car No.: 46584

 Time Logged In: 0600 Logged In By: Co

 Ship Date: 17 May 91 Silo(s): 687 Customer: CSX
897918-058

- NO METAL -	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.10		.12		.11		.11	
Contamination Syntron Method	$\frac{6}{9}$		$\frac{4}{5}$		$\frac{2}{9}$		$\frac{3}{6}$	
Wet Method	$\frac{25}{10}$		$\frac{2}{1}$		$\frac{3}{5}$		$\frac{5}{4}$	
Bulk Density	.551		.553		.551		.546	
BD w/antistat								
Viscosity	.128		.131		.134		.126	
RVCM	.079		.071		.067		.077	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	$\frac{4}{8}$							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.08</u>	<u>3.89</u>	<u>9.58</u>	<u>15.85</u>	<u>12.60</u>	<u>6.82</u>	<u>1.15</u>
%	<u>0.0</u>	<u>0.2</u>	<u>7.8</u>	<u>19.2</u>	<u>31.7</u>	<u>25.2</u>	<u>13.6</u>	<u>2.3</u>

 Static Flow: 0 17.9 % Glassies: <1% Avg. Microns: 134

 Color L: 98.25 a 0.77 b 2.30 CPA: 17.6

 Technician: mb - T9

Vista Polymers
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Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 14 May 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41154

Date of Shipment: 13 May 91

Order No.: 897918-056

Property Test Method Analysis

Moisture, % ABR-1A 0.07

Bulk Density, ABR-2A 0.530
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.4	16.6	25.5	30.2	17.4	7.4	2.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.068	0.242	0.399	0.182
0.73	0.72	0.72	0.72
3/ 6	2/ 7	3/ 5	2/ 7

All particles of contamination are less than .07mm² in size.

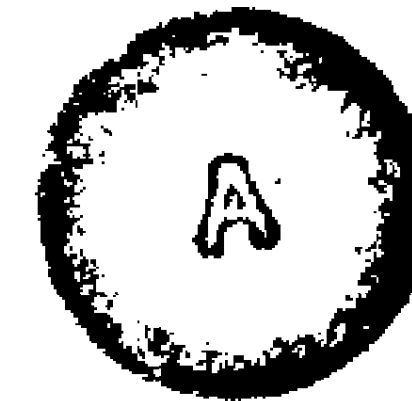
This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193335



PVC RAILCAR ANALYSIS

ACFX

Load Date: 5-2-91 Product: 5305Car No.: 41154Time Logged In: 1600Logged In By: CShip Date: 13 MaySilo(s): 680-678Customer: CSN (Miner)

891918-056

No Metal

JUGS

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.04		.02		.07		.03	
Contamination Syntron Method	3/6		2/7		3/5		2/7	
Wet Method								
Bulk Density	520		533		532		536	
BD w/antistat								
Viscosity	.726		.720		.717		.722	
RVCN	.068		.242		.399		.182	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	5/11							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.18</u>	<u>8.31</u>	<u>12.74</u>	<u>14.73</u>	<u>8.68</u>	<u>3.68</u>	<u>1.24</u>
%	<u>0.0</u>	<u>0.4</u>	<u>16.6</u>	<u>25.5</u>	<u>30.2</u>	<u>17.4</u>	<u>7.4</u>	<u>2.5</u>

Static Flow: 0 18.0 % Glassies: <1% Avg. Microns: 147.4Color L: 98.94 a 0.16 b 1.33 CPA: 19.7Technician: P. J. R. H.

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Vista Chemical Company

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Post Office Box 91

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

CERTIFICATE OF ANALYSIS

VISTA

Date: 14 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46411

Date of Shipment: 13 May 91

Order No.: 897918-057

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.07
Bulk Density, GM/CC	ABR-2A	0.549

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	5.1	27.4	25.3	22.7	12.1	5.6	1.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.044	0.070	0.049	0.062
0.74	0.74	0.73	0.73
2/ 9	3/ 10	2/ 7	1/ 8

All particles of contamination are less than .07mm² in size.

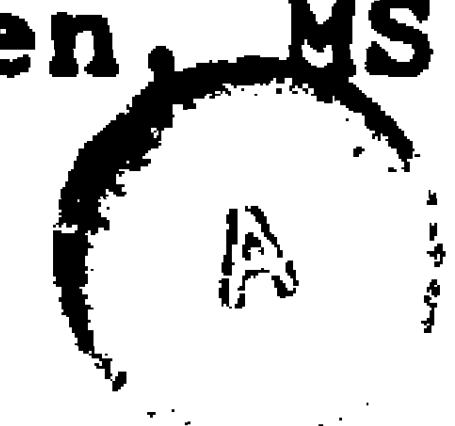
This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193337



PVC RAILCAR ANALYSIS

Load Date: 5-7-91Product: 5305Car No.: 46411Time Logged In: 1300Logged In By: MAJShip Date: 13 May 91Silo(s): 678, 680Customer: CSU (Piney)Samples in Tugs897918-057No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.03		.07		.03		.02	
Contamination Syntron Method	4/9		3/10		2/7		1/8	
Wet Method								
Bulk Density	.540		.563		.543		.550	
BD w/antistat								
Viscosity	.740		.737		.732		.731	
RVCM	.044		.070		.049		.062	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/7							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.56</u>	<u>13.71</u>	<u>12.64</u>	<u>11.40</u>	<u>6.04</u>	<u>2.79</u>	<u>0.89</u>
%	<u>0.0</u>	<u>5.1</u>	<u>27.4</u>	<u>25.3</u>	<u>22.7</u>	<u>12.1</u>	<u>5.6</u>	<u>1.8</u>

Static Flow: 0 18.7% Glassies: 1%Avg. Microns: 167.7Color L: 98.57 a 0.53 b 2.61CPA: 19.1Technician: Co + ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
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Highway 25
P.O.Box 91

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

Date: 9 May 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Trailer No.: T-351

Date of Shipment: 9 May 91

Order No.: 883462-032

Property Test Method Analysis

Moisture, % ABR-1A _____

Bulk Density, ABR-2A _____
GM/CC

Particle Size, ABR-3

% on

40	60	80	100	120	140	200	PAN
0.0	0.4	8.6	18.1	28.8	25.2	16.0	2.9

Residual VCM, PPM ABGC-26 < 1.0

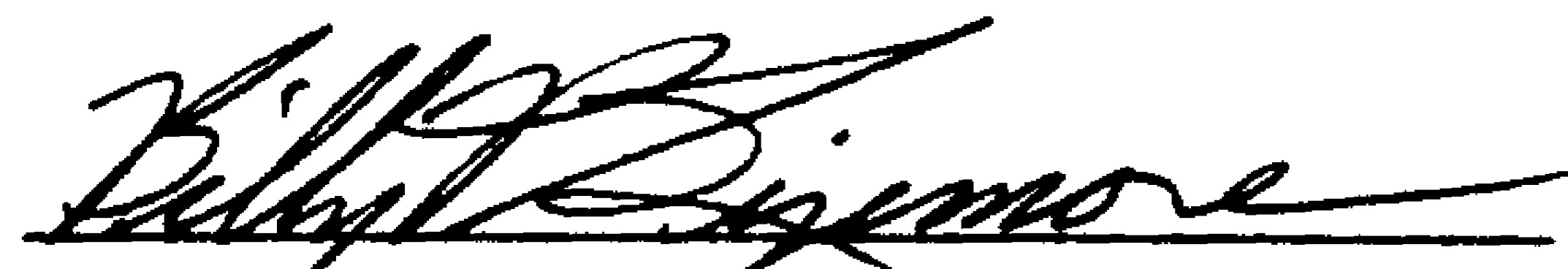
Inherent Viscosity ABR-10B .72 - .75

Contamination, ABR-5A 2/4
Syntron, Blk/Brn

This material was made with new clean wall technology.

This material was made with decalcified water.

This product was made with the new reactor rinse spray nozzle.


Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193339

PVC BULK TRAILER ANALYSIS

Date 5-8-91 Product 5305 Trailer Number T-351
 Customer Amr mixed Silo 684 Time 0300
 Technician C Outlaw Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.04		1.2/4		1.	1.533	1.	L = 98.39 A = 161		
	2.		2.		2.		2.	B = 2.36		0/10.0
MIDDLE	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
END	1.		1.		1.		1.	B =		
	2.		2.		2.		2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	0.00	.20	4.29	9.06	14.42	12.59	8.02	1.45	
% on Mesh	0.0	.4	8.6	18.1	28.8	25.2	16.0	2.9	

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.0001193340

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Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

VISTA

Date: 5-7-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Trailer No.: T-722

Date of Shipment: 5-7-91

Order No.: 883462-031

Property Test Method Analysis

Moisture, % ABR-1A10

Bulk Density, ABR-2A535
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.0	.2	8.9	19.2	30.2	24.5	14.8	2.5

Residual VCM, PPM ABGC-26 < 1.0

Inherent Viscosity ABR-10B .72 - .75

Contamination,

Syntron, Blk/Brn ABR-5A

2/6

This material was made with new clean wall technology.

This material was made with decalcified water.

Curtis Outlaw
Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193341

PVC BULK TRAILER ANALYSIS



Date 5-7-91 Product 5305 Trailer Number F-722
 Customer Miprex Silo 684 Time 2145
 Technician CO & ES Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>2/6</u>		1. <u>—</u>	1. <u>.535</u>	1. <u>—</u>	L = <u>98.48</u>		<u>Now</u> <u>0/</u> <u>18.9</u>
	2. _____		2. _____		2. _____	2. _____	2. _____	A = <u>0.58</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 _____ 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>.12</u>	<u>4.45</u>	<u>9.62</u>	<u>15.00</u>	<u>12.25</u>	<u>7.38</u>	<u>1.23</u>	_____
% on Mesh	<u>0.00</u>	<u>.2</u>	<u>8.9</u>	<u>19.2</u>	<u>30.2</u>	<u>24.5</u>	<u>14.8</u>	<u>2.5</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.0001193342

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Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

VISTA

Date: 9 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45812

Date of Shipment: 7 May 91

Order No.: 897918-055

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.16
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.544
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	1.7	21.0	26.3	28.3	15.2	5.7	1.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
---	----	----	---

0.092	0.141	0.029	0.101
0.73	0.73	0.73	0.72
2/ 14	4/ 16	3/ 17	2/ 15

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193343

PVC RAILCAR ANALYSIS

Load Date: 5-4-91 Product: 5305 Car No.: 45812Time Logged In: 1200 Logged In By: GoShip Date: 7 May 91 Silo(s): 687 Customer: Minex - BIDS Termno metal897918-055Samples in Jv ga

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.01		.07		.02		.16	
Contamination Syntron Method	2/14		4/16		3/17		2/15	
Wet Method								
Bulk Density	.549		.530		.556		.542	
BD w/antistat								
Viscosity	.725		.729		.727		.721	
RVCM	.092		.141		.029		.101	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	5/9							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.0</u>	<u>.86</u>	<u>10.49</u>	<u>13.15</u>	<u>13.90</u>	<u>7.60</u>	<u>2.83</u>	<u>.89</u>
%	<u>0.0</u>	<u>1.7</u>	<u>21.0</u>	<u>26.3</u>	<u>28.3</u>	<u>15.2</u>	<u>5.7</u>	<u>1.8</u>

Static Flow: 0 17.5 % Glassies: < 1% Avg. Microns: 155.6Color L: 98.72 a 0.32 b 1.92 CPA: 20.6Technician: Go, MT, ES

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Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

Date: 6 May 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46556

Date of Shipment: 2 May 91

Order No.: 897918-054

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	.17
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.530
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.4	13.2	23.8	31.6	21.1	8.0	2.3

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

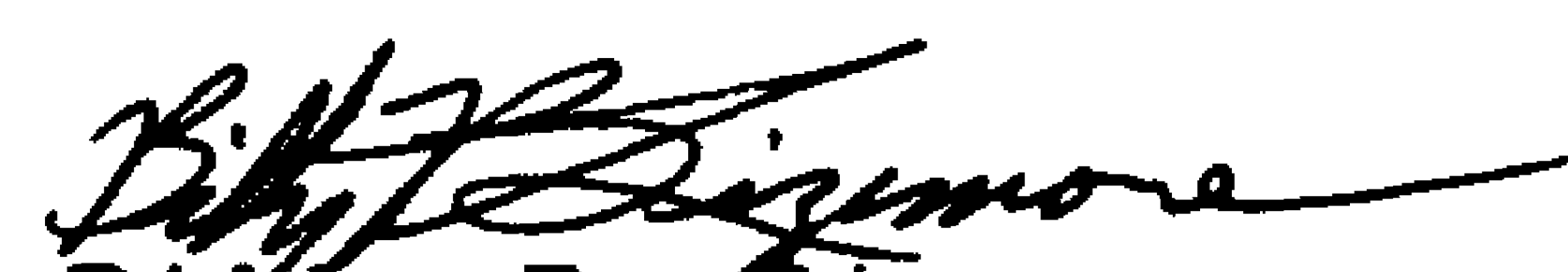
Made with decalcified water.

A	CA	CB	B
---	----	----	---

.058	.030	.066	.069
.73	.73	.73	.72
4/6	5/5	6/4	4/7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193345

A

PVC RAILCAR ANALYSIS

Load Date: 4-30-91 Product: 5305 Car No.: 46556Time Logged In: 1400 Logged In By: P.T.Ship Date: 2 May 91 Silo(s): 678+680 Customer: 897918-058No MemL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.17		.15		.15		.07	
Contamination Syntron Method	4/6		5/5		6/4		4/7	
Wet Method	1/1		1/1		0/1		0/2	
Bulk Density	.536		.536		.537		.513	
BD w/antistat								
Viscosity	.731		.731		.730		.724	
RVCM	.058		.030		.066		.069	
Blown Film								
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>0.02</u>	<u>6.60</u>	<u>11.88</u>	<u>15.82</u>	<u>10.55</u>	<u>4.02</u>	<u>1.15</u>
%	<u>0.0</u>	<u>.04</u>	<u>13.2</u>	<u>23.8</u>	<u>31.6</u>	<u>21.1</u>	<u>8.0</u>	<u>2.3</u>

Static Flow: 0, 7.8 % Glassies: <1% Avg. Microns: 142.6Color L: 99.08 a 0.15 b 1.36 CPA: 20.7Technician: P.T. & H.D.

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Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

Date: 6 May 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45864

Date of Shipment: 2 May 91

Order No.: 897918-053

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	.23
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.536
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.4	11.6	21.3	30.6	22.7	10.8	2.6

BY COMPARTMENT

A	CA	CB	B
---	----	----	---

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

Made with decalcified water.

	.037	.055	.076
	.74	.73	.73
	8/3	6/4	3/4

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193347

PVC RAILCAR ANALYSIS

Load Date: 4-30-91Product: 5305Car No.: 45864Time Logged In: 0535Logged In By: TEShip Date: 2 May 91 Silo(s): 679-688 Customer: 897918-053

No Metal		JUGS							
		A		CA		CB		B	
		1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture		.23		.11		.23		.16	
Contamination Syntron Method		4/9		8/3		6/4		3/4	
Wet Method									
Bulk Density		.532		.544		.533		.536	
BD w/antistat									
Viscosity		.738		.737		.734		.730	
RVCM		.699		.037		.055		.076	
Blown Film									
Tappi Test Contamination Composite		.06 or less			.07 ----- .15			.20 ----- .60	
		5/8							

Screen Analysis

A sample not for Am. M.

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.21</u>	<u>5.81</u>	<u>10.64</u>	<u>15.12</u>	<u>11.37</u>	<u>5.38</u>	<u>1.28</u>
%	<u>0.0</u>	<u>0.4</u>	<u>11.6</u>	<u>21.3</u>	<u>30.6</u>	<u>22.7</u>	<u>10.8</u>	<u>2.6</u>

Static Flow: 0 18.3 % Glassies: <1% Avg. Microns: 139.6Color L: 98.83 a 0.27 b 1.43 CPA: 20.0Technician: P.T. + HDL

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CERTIFICATE OF ANALYSIS



VISTA

Date: 3 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: ACFX-41167

Date of Shipment: 1 May 91

Order No.: 897918-052

Property Test Method Analysis

Moisture, % ABR-1A15

Bulk Density, ABR-2A533
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.0	0.1	12.8	24.9	32.6	19.9	7.4	2.3

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

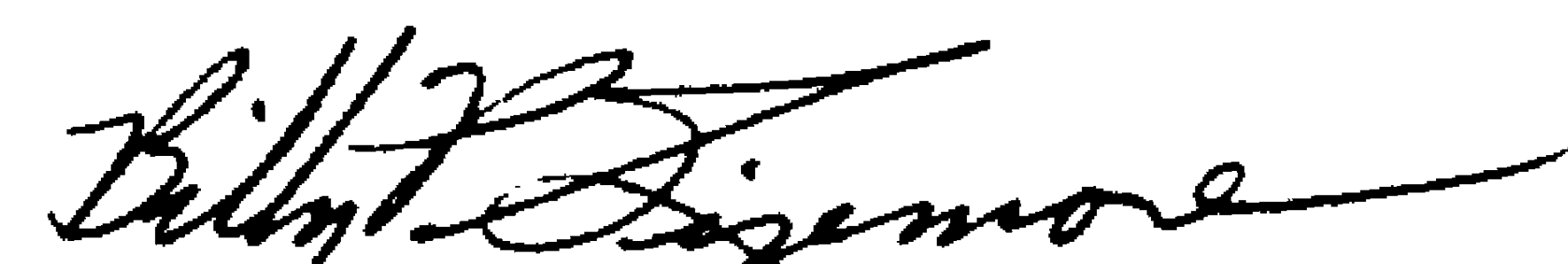
Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
.016	.211	.157	.026
.73	.72	.74	.72
4/11	2/5	3/6	2/9

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193349

PVC RAILCAR ANALYSIS

ALFX

Load Date: 4-18-91 Product: 5305 Car No.: 41167Time Logged In: 23:00 Logged In By: KEShip Date: 1 May 91 Silo(s): 678, 690, Customer: CSX (Muney)Samples in Tugs
No metal897918-052

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.15		.11		.10		.11	
Contamination Syntron Method	4/11		2/5		3/6		2/9	
Wet Method								
Bulk Density	.532		.536		.531		.533	
BD w/antistat								
Viscosity	.728		.723		.744		.722	
RVCM	.016		.211		.157		.026	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	3/8							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.07</u>	<u>6.39</u>	<u>12.47</u>	<u>16.36</u>	<u>9.94</u>	<u>3.72</u>	<u>1.13</u>
%	<u>0.0</u>	<u>0.1</u>	<u>12.8</u>	<u>24.9</u>	<u>32.6</u>	<u>19.9</u>	<u>7.4</u>	<u>2.3</u>

Static Flow: 0 / 7.5 % Glassies: 21% Avg. Microns: 143.0Color L: 99.76 a 0.22 b 1.29 CPA: 20.5Technician: Co + ES

PVC RAILCAR ANALYSIS

Load Date: 4-25-91 Product: 5305 Car No.: 46419

Time Logged In: 0400 Logged In By: HSL

Ship Date: 29 Apr. 91 Silo(s): 678/688 Customer: CSX
891918-050

NO-METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.08		.08		.06		.08	

Contamination Syntron Method	$\frac{2}{5}$		$\frac{1}{4}$		$\frac{3}{4}$		$\frac{2}{5}$	
Wet Method	$\frac{1}{2}$		$\frac{0}{2}$		$\frac{1}{3}$		$\frac{1}{1}$	
Bulk Density	.533		.534		.535		.533	
BD w/antistat								
Viscosity	.723		.721		.719		.724	
RVCM	.070		.147		.155		.147	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	$\frac{3}{6}$		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>8.32</u>	<u>8.67</u>	<u>11.74</u>	<u>14.78</u>	<u>9.50</u>	<u>3.80</u>	<u>1.22</u>
%	<u>0.00</u>	<u>0.6</u>	<u>17.3</u>	<u>23.5</u>	<u>29.6</u>	<u>19.0</u>	<u>7.6</u>	<u>2.4</u>

Static Flow: 0.17.6 % Glassies: <1% Avg. Microns: 147.5

Color L: 99.31 a 0.04 b 1.54 CPA: 20.2

Technician: A.L. & R.H.

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Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS



VISTA

Date: 1 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46444

Date of Shipment: 29 Apr. 91

Order No.: 897918-051

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	.11
Bulk Density, GM/CC	ABR-2A	.538

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.0	0.1	12.3	23.2	31.6	21.3	8.9	2.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
.031	.032	.064	.050
.73	.73	.73	.73
1/4	1/3	2/3	1/4

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193352

PVC RAILCAR ANALYSIS

Load Date: 4-27-91 Product: 5305Car No.: 46444Time Logged In: 2110Logged In By: TEShip Date: 29 Apr. 91 Silo(s): 688-678Customer: CSH (Minex)897918-051No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.11		.09		.08		.11	

Contamination Synttron Method	$\frac{1}{4}$		$\frac{1}{3}$		$\frac{2}{3}$		$\frac{1}{4}$	
Wet Method								
Bulk Density	.536		.539		.540		.537	
BD w/antistat								
Viscosity	.126		.129		.128		.129	
RVCM	.031		.032		.064		.050	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	$\frac{2}{5}$		

Screen Analysis

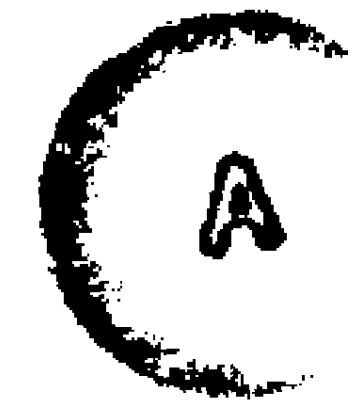
Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.07</u>	<u>6.13</u>	<u>11.60</u>	<u>15.89</u>	<u>10.65</u>	<u>4.46</u>	<u>1.32</u>
%	<u>0.00</u>	<u>.1</u>	<u>12.3</u>	<u>23.2</u>	<u>31.6</u>	<u>21.3</u>	<u>8.9</u>	<u>2.6</u>

Static Flow: 0.75 % Glassies: <1% Avg. Microns: 20.4Color L: 99.31 a 0.20 b 1.33 CPA: 142.4Technician: A.J. & R.H.

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

VISTA

Date: 1 May 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46419

Date of Shipment: 29 Apr. 91

Order No.: 897918-050

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

Moisture, %	ABR-1A	.08
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.534
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.6	17.3	23.5	29.6	19.0	7.6	2.4

BY COMPARTMENT

Residual VCM, PPM ABR-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
---	----	----	---

.070	.147	.155	.147
.72	.72	.72	.72
2/5	1/4	3/4	2/5

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193354

PVC RAILCAR ANALYSIS

Load Date: 3-10-91 Product: 5265Car No.: 44376Time Logged In: 01:00 Logged In By: PetoShip Date: 3-15-91 Silo(s): 678, 688 Customer: Murrex / Habco
900738-005NO METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.04		.05	0	.05		.04	
Contamination	$\frac{6}{10}$	—	$\frac{3}{7}$	—	$\frac{5}{11}$	—	$\frac{3}{9}$	—
Bulk Density	.552		.553		.551		.555	
BD w/antistat								
Viscosity	.668		.667		.668		.665	
RVCM	.084		.124		.082		.121	

Mirrex Shipments ONLY

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	$\frac{4}{6}$		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.04</u>	<u>3.69</u>	<u>8.59</u>	<u>14.59</u>	<u>13.20</u>	<u>8.42</u>	<u>1.41</u>
%	<u>0.00</u>	<u>0.1</u>	<u>7.4</u>	<u>17.2</u>	<u>29.3</u>	<u>26.4</u>	<u>16.8</u>	<u>2.8</u>

Static Flow: 0.18.1Avg. Microns: 130.9Color L: 98.35 a 0.80 b 186Technician: A.I. + J.S.

CERTIFICATE OF ANALYSIS

Date: 3-18-91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynn Webb

Railcar No.: PLWX-44376

Date of Shipment: 3-15-91

Order No.: 900738-005

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

Moisture, %	ABR-1A	0.05
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.553
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.1	7.4	17.2	29.3	26.4	16.8	2.8

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
---	----	----	---

0.084	0.124	0.082	0.121
0.67	0.67	0.67	0.67
6/ 10	3/ 7	5/ 11	3/ 9

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aderdeen, Mississippi 39730-0092
Phone (601) 369-8111

CERTIFICATE OF ANALYSIS



Date: 25 Apr. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

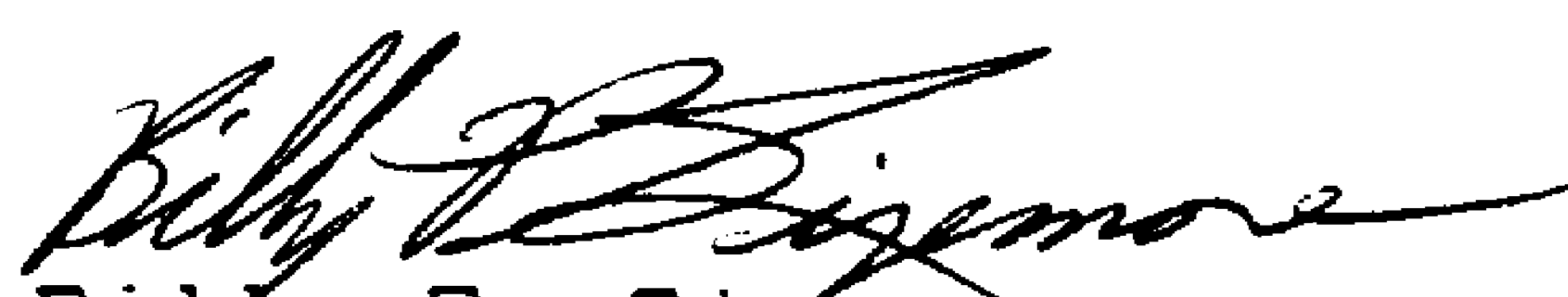
Trailer No.: 7-723

Date of Shipment: 25 Apr. 91

Order No.: 883462-029

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>		
Moisture, %	ABR-1A	<u>.05</u>		
Bulk Density, GM/CC	ABR-2A	<u>.510</u>		
Particle Size.	ABR-3	40 Mesh	200 Mesh	Pan
		<u>0.0</u>	<u>8.2</u>	<u>1.4</u>
Residual VCM, PPM	ABGC-26	< 1.0		
Inherent Viscosity	ABR-10B	0.71-0.74		


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC BULK TRAILER ANALYSIS

A

Date 4-24-91 Product 5305 Trailer Number T-723
 Customer Mirrex Silo 683 Time 1530
 Technician TE+JS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.05		1.11	7	1.	1.	1.	L = 99.64		Flow c/no.0
			7	3	-	.510	-	A = 0.19		
	2.		2.		2.	2.	2.	B = 1.33		
MIDDLE	1.		1.		1.	1.	1.	L =		NO METAL
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.4	5	1.	1.	1.	L =		
			4	5				A =		
	2.		2.		2.	2.	2.	B =		

"NO BIONIC BEADS"

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	0.00	0.07	5.14	11.98	16.98	11.02	4.08	0.70	
% on Mesh	0.0	0.1	10.3	24.0	34.0	22.0	8.2	1.4	

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.0001193358

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

CERTIFICATE OF ANALYSIS



VISTA

Date: 25 Apr. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle. DE 19720

Product: 5305

Attention: Lynne Webb

Trailer No.: T-2868

Date of Shipment: 25 Apr. 91

Order No.: 883462-030

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.06</u>
Bulk Density, GM/CC	ABR-2A	<u>.511</u>
Particle Size.	ABR-3	40 Mesh 200 Mesh Pan
		<u>.0</u> <u>10.0</u> <u>1.7</u>
Residual VCM, PPM	ABGC-26	< 1.0
Inherent Viscosity	ABR-10B	0.71-0.74


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC BULK TRAILER ANALYSIS

Date 4-24-91 Product 5305 Trailer Number T-2868
 Customer Mirrex Silo 683 Time 1530
 Technician TE-JPS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.06		1.8	9	1.	1.	1.	L = 99.68		Flow 6/104
			4	2	-	.511	—	A = 0.15		
	2.		2.		2.	2.	2.	B = 1.26		
MIDDLE	1.		1.		1.	1.	1.	L =		NO METAL
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		3	5	1.	1.	1.	L =		
			6	8				A =		
	2.		2.		2.	2.	2.	B =		

"NO BRONIC BEADS"

Particle Size Distribution:

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

								Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.	0.00	0.07	4.68	10.76	16.64	17.94	5.01	0.84	
% on Mesh	0.0	0.1	9.4	21.5	33.4	23.9	10.0	1.7	

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 0001193360

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Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

Date: 17 Apr. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46513

Date of Shipment: 16 Apr. 91

Order No.: 897918-048

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

Moisture, %	ABR-1A	0.17
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.530
------------------------	--------------	-------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.00	0.3	13.3	24.5	30.7	19.7	9.0	2.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.016	0.078	0.063	0.075
0.73	0.73	0.73	0.72
2/ 5	4/ 13	4/ 5	2/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193361

PVC RAILCAR ANALYSIS

Load Date: 4-1-91Product: 5305Car No.: 21TCX 46513Time Logged In: 0300Logged In By: TEShip Date: 16 Silo(s): 678-680Customer: Klockner/Phinco
897918-048No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.12		.17		.10		.13	
Contamination Syntron Method	2/5		4/13		4/5		2/7	
Wet Method	4/1		9/3		3/1		2/1	
Bulk Density	.533		.531		.518		.536	
BD w/antistat								
Viscosity	.726		.729		.725		.723	
RVCM	.016		.078		.063		.075	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>4/7</u>							

Screen Analysis

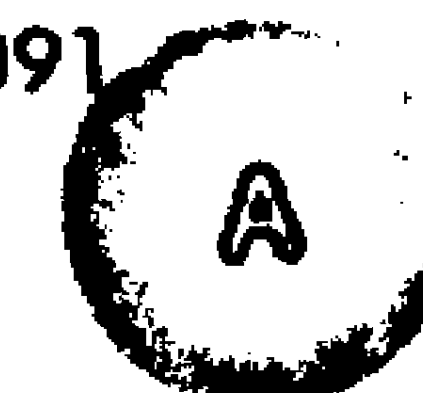
Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.16</u>	<u>6.64</u>	<u>12.25</u>	<u>15.50</u>	<u>9.87</u>	<u>4.50</u>	<u>1.27</u>
%	<u>0.0</u>	<u>0.3</u>	<u>13.3</u>	<u>24.5</u>	<u>30.7</u>	<u>19.7</u>	<u>9.0</u>	<u>2.5</u>

Static Flow: 0, 8.9 % Glassies: <1% Avg. Microns: 143.1Color L: 98.72 a 0.42 b 1.57 CPA: 19.6Technician: P.J. HPL

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Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

Date: 16 Apr. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46420

Date of Shipment: 15 Apr. 91

Order No.: 897918-046

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.16
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.529
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.1	8.1	19.8	30.9	25.2	13.2	2.7

BY COMPARTMENT

Residual VCM, PPM ABR-26

Inherent Viscosity ABR-10B

Contamination,

Syntren, Blk/Ern ABR-5A

Made with decalcified water.

A	CA	CB	B
0.135	0.115	0.056	0.048
0.73	0.73	0.73	0.74
3/ 9	4/ 8	2/ 14	3/ 12

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy F. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193363

PVC RAILCAR ANALYSIS

Load Date: 4-3-91 Product: 5305Car No.: 46420Time Logged In: 2200Logged In By: R31Ship Date: 15 Silo(s): 683 + 684Customer: Kocher/Phur897918-046no mteal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.16		.10		.10		.11	

Contamination Syntron Method	3/9		4/8		2/14		3/12	
Wet Method	0/1		1/1		2/3		1/2	
Bulk Density	.533		.528		.525		.531	
BD w/antistat								
Viscosity	.732		.732		.730		.740	
RVCM	.135		.115		.056		.048	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	5/13		

Screen Analysis

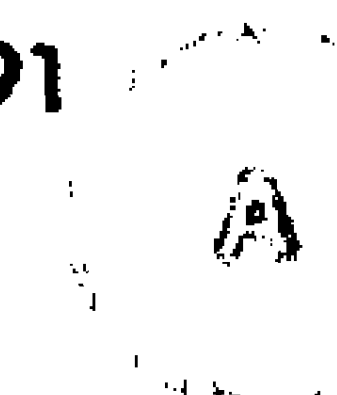
Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.05</u>	<u>4.04</u>	<u>9.91</u>	<u>15.28</u>	<u>12.62</u>	<u>6.60</u>	<u>1.35</u>
%	<u>0.0</u>	<u>0.1</u>	<u>8.1</u>	<u>19.8</u>	<u>30.9</u>	<u>25.2</u>	<u>13.2</u>	<u>2.7</u>

Static Flow: 018.3 % Glassies: 11% Avg. Microns: 134.1Color L: 99.25 a 0.26 b 1.31 CPA: 19.6Technician: M.T., C.O., & D.L.

Vista Polymers
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Highway 25
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Aderdeen, Mississippi 39730-0091
Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

Date: 10 Apr. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: UTCX-46519

Date of Shipment: 8 Apr. 91

Order No.: 897918-044

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.06
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.521
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.0	8.9	21.0	30.3	25.7	13.0	1.1

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

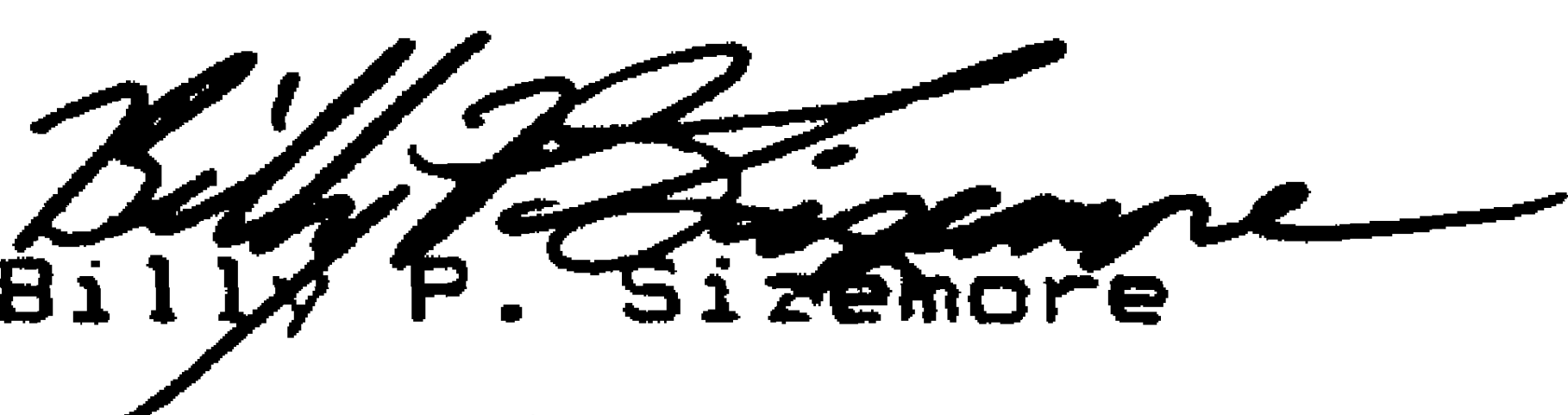
Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.010	0.057	0.080	0.097
0.74	0.73	0.72	0.73
2/ 4	1/ 6	2/ 5	3/ 10

All particles of contamination are less than .07mm² in size.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193365

A

PVC RAILCAR ANALYSIS

Load Date: 4-2-91

Product:

5305

Car No.:

46519

Time Logged In: 2200Logged In By: R31Ship Date: 8 Apr. 91Silo(s): 680

Customer:

Murrex / CSX Bds897918-044No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.06		.05		.06	

Contamination Syntron Method	<u>3/4</u>		<u>1/6</u>		<u>2/5</u>		<u>3/10</u>	
Wet Method	<u>1/2</u>		<u>9/1</u>		<u>2/2</u>		<u>1/2</u>	
Bulk Density	<u>.516</u>		<u>.513</u>		<u>.525</u>		<u>.530</u>	
BD w/antistat								
Viscosity	<u>.737</u>		<u>.728</u>		<u>.722</u>		<u>.725</u>	
RVCM	<u>.010</u>		<u>.057</u>		<u>.080</u>		<u>.097</u>	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	<u>3/8</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>2.02</u>	<u>4.47</u>	<u>10.50</u>	<u>15.17</u>	<u>12.86</u>	<u>6.49</u>	<u>0.54</u>
%	<u>0.00</u>	<u>0.0</u>	<u>8.9</u>	<u>21.0</u>	<u>30.3</u>	<u>25.7</u>	<u>13.0</u>	<u>1.1</u>

Static Flow: 0 / 10.1 % Glassies: < 1% Avg. Microns: 136.4Color L: 98.48 a 0.38 b 1.57 CPA: 19.6Technician: A.J. & R.H.

Vista Polymers
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Vista Chemical Company

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



CERTIFICATE OF ANALYSIS

Date: 16 Apr. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynne Webb

Railcar No.: VIPX-45778

Date of Shipment: 15 Apr. 91

Order No.: 897918-047

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.17
-------------	--------------	------

Bulk Density, GN/CC	ABR-2A	0.526
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.1	7.9	18.5	30.1	26.2	14.3	2.9

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

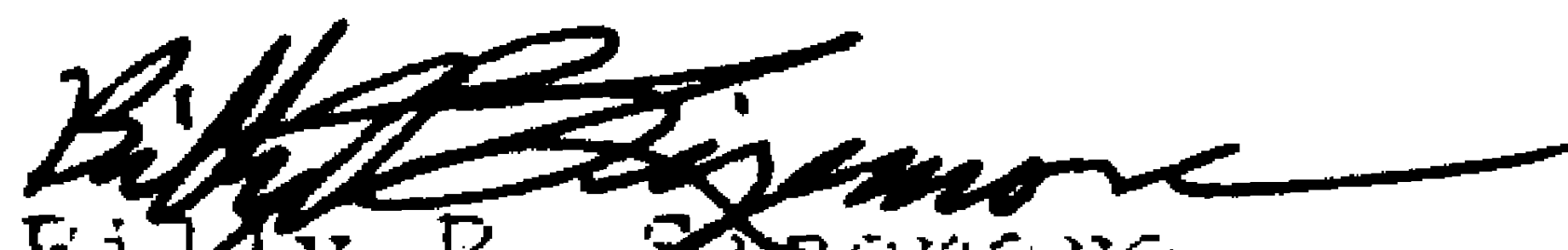
Made with decalcified water.

A	CA	CB	B
---	----	----	---

0.048	0.048	0.069	0.055
0.72	0.73	0.73	0.72
2/ 9	3/ 5	7/ 4	3/ 7

All particles of contamination are less than .07mm² in size.

This product was made with the new reactor rinse spray nozzle.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193367

PVC RAILCAR ANALYSIS

Load Date: 4-8-91 Product: 5305 Car No.: 45778

Time Logged In: 05:30 Logged In By: PT.

Ship Date: 15 Silo(s): 680 Customer: CS4/Mund
Samples in Jugs, 897918-047

no metal

1825
TE

	<u>A</u>		<u>CA</u>		<u>CB</u>		<u>B</u>	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.08		.05		.17		.05	
Contamination Syntron Method	<u>2/9</u>		<u>3/5</u>		<u>7/4</u>		<u>3/7</u>	
Wet Method								
Bulk Density	.521		.525		.531		.526	
BD w/antistat								
Viscosity	.724		.726		.725		.722	
RVCM	.048		.048		.069		.055	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>3/7</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.06</u>	<u>3.96</u>	<u>9.24</u>	<u>15.08</u>	<u>13.09</u>	<u>7.13</u>	<u>1.43</u>
%	<u>0.0</u>	<u>0.1</u>	<u>7.9</u>	<u>18.5</u>	<u>30.1</u>	<u>26.2</u>	<u>14.3</u>	<u>2.9</u>

Static Flow: 018.6 % Glassies: <1% Avg. Microns: 132.7

Color L: 98.43 a 0.50 b 1.12 CPA: 19.9

Technician: Co+Ed



CERTIFICATE OF ANALYSIS

Date: 3-19-91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: UTCX-46579

Date of Shipment: 3-18-91

Order No.: 897918-038

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

Moisture, %	ABR-1A	0.22
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.530
------------------------	--------------	-------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.00	0.1	4.7	14.6	37.6	26.4	14.1	2.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.051	0.068	0.044	0.068
0.73	0.73	0.73	0.73
2/ 6	5/ 9	3/ 8	4/ 9

All particles of contamination are less than .07mm² in size.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 1-1-91Product: 5305Car No.: 46519 ^{UTX}Time Logged In: 1100Logged In By: TEShip Date: 3-18-91Silo(s): 688-687Customer: Miner/CSHComps in JUGS897918-038No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.22		.12		.07		.06	

Contamination Syntron Method	2/6		5/9		3/8		4/9	
Wet Method								
Bulk Density	.530		.528		.533		.528	
BD w/antistat								
Viscosity	.732		.730		.727		.727	
RVCM	.051		.068		.044		.068	
Blown Film								

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>0.07</u>	<u>2.33</u>	<u>7.29</u>	<u>18.79</u>	<u>13.19</u>	<u>7.06</u>	<u>1.25</u>
%	<u>0.0</u>	<u>0.1</u>	<u>4.7</u>	<u>14.6</u>	<u>37.6</u>	<u>26.4</u>	<u>14.1</u>	<u>2.5</u>

Static Flow: 0 17.7% Glassies: < 1%Avg. Microns: 129.7Color L: 99.06 a 0.28 b 1.64CPA: 20.7Technician: CO & ES

2300

Vista Polymers

Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 3-19-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: ACFX-41136

Date of Shipment: 3-18-91

Order No.: 897918-037

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

Moisture, %	ABR-1A	.08
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.535
------------------------	--------------	------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.0	0.1	8.5	18.5	37.3	22.4	11.1	2.1

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
.146	.028	.074	.217
.73	.72	.73	.73
3/7	2/8	3/6	2/6

This material was made with decalcified water.

All particles of contamination are less than .07 mm² in size.

H. D. Lucas

VAB.0001193371

PVC RAILCAR ANALYSIS

ACFX

Load Date: 12-27-90Product: 5305Car No.: 41136Time Logged In: 1600Logged In By: 6Ship Date: 3-18-91Silo(s): 678, 680, 86, 87Customer: Honey/CSH892918-037No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.07		.08		.06		.07	
Contamination Syntron Method	<u>3/7</u>		<u>2/8</u>		<u>3/6</u>		<u>2/6</u>	<u>2</u>
Wet Method								
Bulk Density	<u>.536</u>		<u>.532</u>		<u>.538</u>		<u>.528</u>	
BD w/antistat								
Viscosity	<u>.726</u>		<u>.724</u>		<u>.728</u>		<u>.727</u>	
RVCM	<u>.146</u>		<u>.028</u>		<u>.074</u>		<u>.217</u>	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>5/10</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.06</u>	<u>4.25</u>	<u>9.26</u>	<u>18.47</u>	<u>11.23</u>	<u>5.54</u>	<u>1.06</u>
%	<u>0.00</u>	<u>.1</u>	<u>8.5</u>	<u>18.5</u>	<u>37.3</u>	<u>22.4</u>	<u>11.1</u>	<u>2.1</u>

Static Flow: 0.175 % Glassies: < 1% Avg. Microns: 1363Color L: 98.62 a 1.09 b 2.04 CPA: 10.3Technician: A.J. & R.H.



Phone (601) 369-8111

Vista Polymers

Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 3-19-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45794

Date of Shipment: 3-18-91

Order No.: 897918-036

Property Test Method Analysis

Moisture, % ABR-1A .30

Bulk Density, ABR-2A .530
GM/CC

Particle Size,	ABR-3	40	60	80	100	120	140	200	PAN
% on		0.0	0.7	8.8	20.3	40.3	19.2	8.6	2.1

BY COMPARTMENT

	A	CA	CB	B
Residual VCM, PPM ABGC-26	.054	.060	.060	.060
Inherent Viscosity ABR-10B	.72	.72	.73	.72
Contamination, H.D. Location				
Syntron, Blk/Bro ABR-5A Laboratory Supervisor/Lead	4/6	5/7	2/5	3/7

This material was made with decalcified water.

All particles of contamination are less than .07 mm² in size.

PVC RAILCAR ANALYSIS

Load Date: 12-25-90 Product: 5305Car No.: 45794Time Logged In: 1330Logged In By: HAZShip Date: 3-18-91 Silo(s): 678/680Customer: Murray CSE897918-036No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	<u>.05</u>		<u>.16</u>		<u>.30</u>		<u>.10</u>	

Contamination Syntron Method	<u>4/6</u>		<u>5/7</u>		<u>2/5</u>		<u>3/7</u>	
Wet Method	<u>1/2</u>		<u>0/1</u>		<u>2/2</u>		<u>1/2</u>	
Bulk Density	<u>.529</u>		<u>.537</u>		<u>.524</u>		<u>.536</u>	
BD w/antistat								
Viscosity	<u>.719</u>		<u>.723</u>		<u>.726</u>		<u>.719</u>	
RVCM	<u>.054</u>		<u>.060</u>		<u>.060</u>		<u>.060</u>	
Blown Film								

Tappi Test Contamination Composite	<u>.06 or less</u>	<u>.07 ----- .15</u>	<u>.20 ----- .60</u>
	<u>7/10</u>		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.34</u>	<u>4.41</u>	<u>10.13</u>	<u>20.28</u>	<u>9.60</u>	<u>4.32</u>	<u>1.03</u>
%	<u>0.00</u>	<u>.7</u>	<u>8.8</u>	<u>20.3</u>	<u>40.3</u>	<u>19.2</u>	<u>8.6</u>	<u>2.1</u>

Static Flow: 1 18.1 % Glassies: < 1% Avg. Microns: 140.1Color L: 98.70 a 0.15 b 1.59 CPA: 20.4Technician: A.J. + R.H.



Vista Polymers

~ Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 3-22-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45849

Date of Shipment: 3-21-91

Order No.: 897918-039

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

Moisture, %	ABR-1A	.07
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.537
------------------------	--------------	------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.0	0.2	5.9	15.2	37.1	27.4	12.6	1.6

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
.075	.085	.076	.090
.73	.73	.73	.73
5/9	9/7	6/14	5/9

This material was made with decalcified water.

All particles of contamination are less than .07 mm² in size.

H. D. Lucas

VAB.0001193375

PVC RAILCAR ANALYSIS

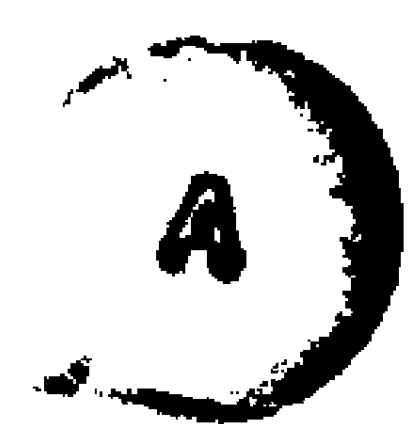
Load Date: 12-15-90 Product: 5305 Car No.: 811Time Logged In: 0400 Logged In By: _____Ship Date: 3-21-91 Silo(s): 689, 13 Customer: Mirre (CS4 Bldg)
897918-039No MetalJ4G3

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.07		.06		.04		.02	
Contamination Synttron Method	5/9		9/7		6/14		5/9	
Wet Method								
Bulk Density	.540		.542		.527		.540	
BD w/antistat								
Viscosity	.731		.726		.728		.730	
RVCN	.075		.085		.076		.090	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>1/8</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.10</u>	<u>2.95</u>	<u>7.60</u>	<u>18.24</u>	<u>13.70</u>	<u>6.31</u>	<u>0.81</u>
%	<u>0.0</u>	<u>0.2</u>	<u>5.9</u>	<u>15.2</u>	<u>37.1</u>	<u>27.4</u>	<u>12.6</u>	<u>1.6</u>

Static Flow: 0 18.4 % Glassies: <1% Avg. Microns: 1323Color L: 98.88 a 0.49 b 1.78 CPA: 20.1Technician: P.T. + HPL



Laboratory Supervisor/Lead

Vista Polymers

Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 3-22-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: PLCX-43086

Date of Shipment: 3-21-91

Order No.: 897918-040

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

Moisture, %	ABR-1A	.12
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.528
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.2	4.6	14.4	39.3	27.8	11.9	1.8

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
.001	.153	.113	.001
.73	.73	.73	.73
2/6	3/2	2/8	3/5

This material was made with decalcified water.

All particles of contamination are less than .07 mm² in size.

H. D. Lucas

Laboratory Supervisor/Lead

VAB.0001193377

PVC RAILCAR ANALYSIS

PLCX

Load Date: 12-15-90Product: 5305Car No.: 43086Time Logged In: 2300Logged In By: R3fShip Date: 3-21-91 Silo(s): 683, 684Customer: Miney (CS4 Bids)
897918-040Sample in JUGS no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.10		.06		.08		.12	

Contamination Syntron Method	2/6		3/2		2/8		3/5	
Wet Method								
Bulk Density	.518		.517		.539		.537	
BD w/antistat								
Viscosity	.725		.726		.728		.727	
RVCM	.001		.153		.113		.001	
Blown Film								

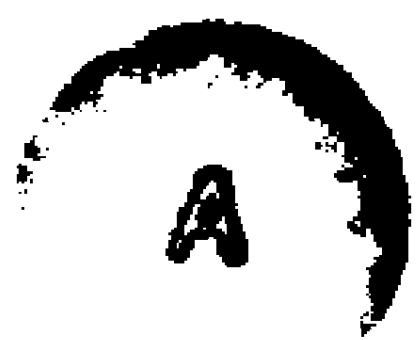
Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	5/9		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.10</u>	<u>2.29</u>	<u>7.20</u>	<u>19.55</u>	<u>13.90</u>	<u>5.97</u>	<u>.89</u>
%	<u>0.0</u>	<u>0.2</u>	<u>4.6</u>	<u>14.4</u>	<u>39.3</u>	<u>27.8</u>	<u>11.9</u>	<u>1.8</u>

Static Flow: 0.18.0% Glassies: 21%Avg. Microns: 131.2Color L: 99.06a 0.36b 1.60CPA: 20.3Technician: ESTCO

1045



Vista Polymers

Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 3-22-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45308

Date of Shipment: 3-21-91

Order No.: 897918-041

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

Moisture, %	ABR-1A	.12
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.538
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.4	9.0	17.7	36.0	23.8	11.2	1.9

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

A	CA	CB	B
.069	.079	.059	.095
.72	.72	.72	.72
3/5	2/8	3/9	4/10

This material was made with decalcified water.

All particles of contamination are less than .07 mm² in size.

PVC RAILCAR ANALYSIS

Load Date: 12-16-90 Product: 5305 Car No.: 45308Time Logged In: 06:00 Logged In By: P.T.Ship Date: 3-21-91 Silo(s): 678+680 Customer: Vincent / CS4
897918-041

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.11		.12		.12		.10	
Contamination Synttron Method	3/5		2/8		3/9		4/10	
Wet Method	2/1		0/1		1/1		1/0	
Bulk Density	.536		.537		.538		.541	
BD w/antistat								
Viscosity	.723		.724		.722		.723	
RVCM	.069		.079		.059		.095	
Blown Film								
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>0.18</u>	<u>4.52</u>	<u>8.83</u>	<u>18.13</u>	<u>11.88</u>	<u>5.61</u>	<u>0.93</u>
%	<u>0.0</u>	<u>0.4</u>	<u>9.0</u>	<u>17.7</u>	<u>36.0</u>	<u>23.8</u>	<u>11.2</u>	<u>1.9</u>

Static Flow: 0 17.5 % Glassies: < 1% Avg. Microns: 136.9Color L: 98.26 a 0.25 b 1.54 CPA: 20.2Technician: TE - JPS

A

Vista Polymers

Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 3-12-91

FAX No. 302-836-5972

Customer: American Mirrex
1389 Schoolhouse Rd.
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45748

Date of Shipment: 3-11-91

Order No.: 897918-035

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

Moisture, %	ABR-1A	.16
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.535
------------------------	--------------	------

Particle Size,	ABR-3
% on	

40	60	80	100	120	140	200	PAN
0.0	0.3	3.2	11.2	34.2	29.6	18.7	2.8

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
.077	.068	.060	.069
.72	.72	.72	.72
2/16	4/19	2/11	2/18

This material was made with decalcified water.

All particles of contamination are less than .07 mm² in size.

H. D. Lucas

VAB.0001193381

PVC RAILCAR ANALYSIS

Load Date: 12-30-90Product: 5305Car No.: 45748 ^{VIPX}Time Logged In: 02:00Logged In By: P.T.Ship Date: 3-11-91Silo(s): 678+680Customer: Winney CSX
897918-035

metal								
	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.16		.14		.15		.11	
Contamination Syntron Method	2/16		4/19		2/11		2/18	
Wet Method	1/3		9/6		1/5		1/9	
Bulk Density	.534		.535		.535		.535	
BD w/antistat								
Viscosity	.119		.120		.124		.123	
RVCM	.077		.068		.060		.069	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	2/15							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.13</u>	<u>1.59</u>	<u>5.59</u>	<u>16.95</u>	<u>14.82</u>	<u>9.34</u>	<u>1.38</u>
%	<u>0.00</u>	<u>0.3</u>	<u>3.2</u>	<u>11.2</u>	<u>34.2</u>	<u>29.6</u>	<u>18.7</u>	<u>2.8</u>

Static Flow: 0 / 8.2 % Glassies: < 1% Avg. Microns: 124.9Color L: 99.27 a 0.18 b 1.46 CPA: 20.0Technician: TE - JPS

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

VISTA

Date: 3-12-91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: PLCX-42984

Date of Shipment: 3-11-91

Order No.: 897918-033

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.09
Bulk Density, GM/CC	ABR-2A	0.534

Particle Size,	ABR-3	40	60	80	100	120	140	200	PAN
% on		0.00	0.2	3.7	11.2	33.5	30.0	18.9	2.5

BY COMPARTMENT

	A	CA	CB	B
Residual VCM, PPM ABGC-26	0.075	0.031	0.099	0.076
Inherent Viscosity ABR-10B	0.72	0.72	0.72	0.72
Contamination, Syntron, Blk/Brn ABR-5A	0/ 15	0/ 18	1/ 6	2/ 6

Made with decalcified water.

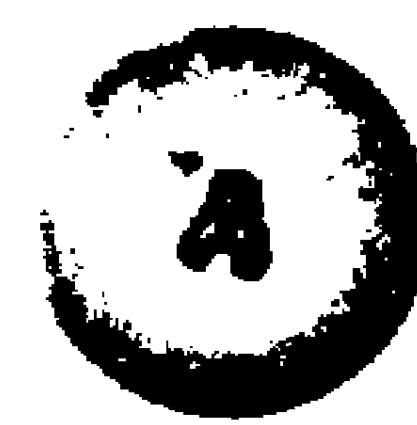
All particles of contamination are less than .07mm² in size.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193383



CERTIFICATE OF ANALYSIS

Date: 3-12-91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: PLCX-42984

Date of Shipment: 3-11-91

Order No.: 897918-033

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.09
Bulk Density, GM/CC	ABR-2A	0.534

Particle Size,
% on

ABR-3

40	60	80	100	120	140	200	PAN
0.00	0.2	3.7	11.2	33.5	30.0	18.9	2.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

A	CA	CB	B
0.000	0.000	0.099	0.076
0.72	0.72	0.72	0.72
0/ 15	0/ 18	1/ 6	2/ 6

Made with decalcified water.

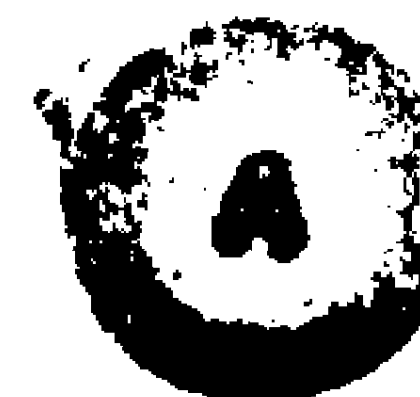
All particles of contamination are less than .07mm² in size.

H.D. Lucas

Laboratory Supervisor/Lead

Phone (601) 369-8111

Aberdeen, MS 39730



PLCX

Car No.: 42984

Logged In By: TE

Customer: Miner CXS

897918-033

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.08</u>	<u>1.84</u>	<u>5.58</u>	<u>16.60</u>	<u>15.02</u>	<u>9.46</u>	<u>1.26</u>
%	<u>0.0</u>	<u>0.2</u>	<u>3.7</u>	<u>11.2</u>	<u>33.5</u>	<u>30.0</u>	<u>18.9</u>	<u>2.5</u>

Static Flow: 0.79 % Glassies: < 1% Avg. Microns: 125.2

Color L: 99.92 a 0.27 b 1.60 CPA: 20.1

Technician: TE + JPS

Vista Polymers
A Division of
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Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

VISTA

Date: 8 March 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: GACX-73400

Date of Shipment: 7 March 91

Order No.: 897918-024

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	.17
-------------	--------------	-----

Bulk Density, GM/CC	ABR-2A	.537
------------------------	--------------	------

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

40	60	80	100	120	140	200	PAN
0.0	0.3	4.8	13.0	35.2	29.6	15.1	2.6

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
.299	.159	.285	.100
.72	.73	.73	.72
6/1	10/5	6/2	5/3

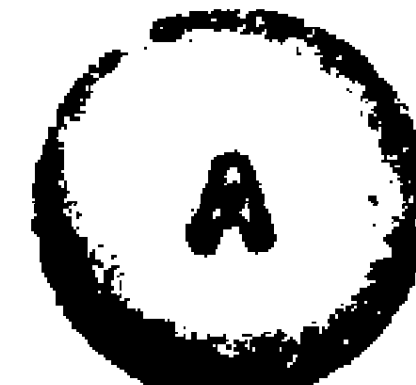
All particles of contamination are less than .07mm² in size.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

Load Date: 12-9-90

Product:

5305

Car No.: 73400Time Logged In: 0300Logged In By: TEShip Date: 7 March 91Silo(s): 678-680

Customer:

Thienvex / CS4 Bids
891918-024 Jrm.No MetalJ4G3

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.17		.15		.05		.04	

Contamination Syntron Method	6/1		10/5		6/2		5/3	
Wet Method								
Bulk Density	.535		.529		.535		.547	
BD w/antistat								
Viscosity	.724		.728		.727		.724	
RVCM	.299		.159		.235		.100	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	8/3		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.06</u>	<u>0.15</u>	<u>2.40</u>	<u>6.50</u>	<u>17.50</u>	<u>14.80</u>	<u>7.55</u>	<u>1.00</u>
%	<u>0.0</u>	<u>0.3</u>	<u>4.8</u>	<u>13.0</u>	<u>35.2</u>	<u>29.6</u>	<u>15.1</u>	<u>2.0</u>

Static Flow: 0 17.9 % Glassies: <1% Avg. Microns: 129.1Color L: 98.98 a 0.31 b 1.56 CPA: 19.7Technician: PI. + M.B.

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Phone (601) 369-8111

CERTIFICATE OF ANALYSIS

Date: 6 March 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynn Webb

Railcar No.: UTCX-46396

Date of Shipment: 4 March 91

Order No.: 900738-004

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.13
Bulk Density, GM/CC	ABR-2A	0.531

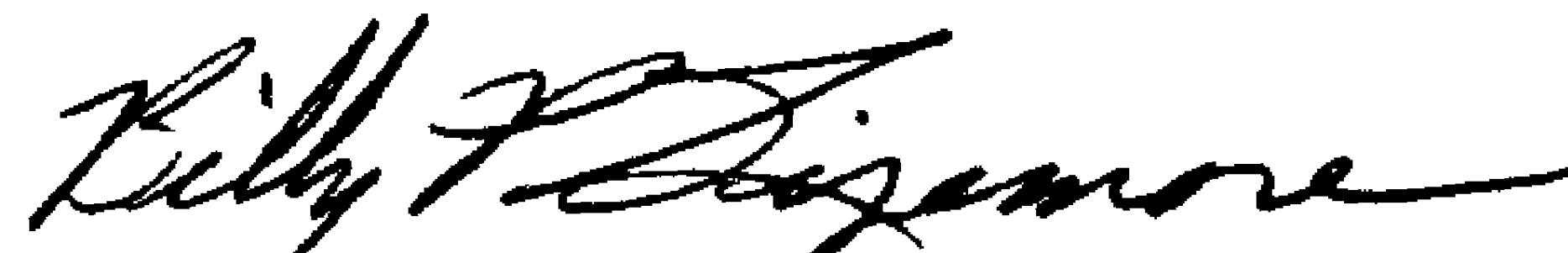
Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.3	7.8	17.3	39.4	23.0	9.9	2.3

BY COMPARTMENT

Residual VCM, PPM ABGC-26
Inherent Viscosity ABR-10B
Contamination,
Syntron, Blk/Brn ABR-5A

A	CA	CB	B
0.065	0.070	0.062	0.060
0.67	0.66	0.66	0.66
2/ 5	2/ 10	1/ 3	4/ 6


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193388

PVC RAILCAR ANALYSIS

Load Date: 2-8-91 Product: 5265 Car No.: 46396

Time Logged In: 1300 Logged In By: C

Ship Date: 4 March 91 Silo(s): 686-687 Customer: CSX
900738-004

No metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.13		.07		.02		.05	
Contamination	<u>2</u> 5	—	<u>2</u> 10	—	<u>1</u> 3	—	<u>4</u> 6	—
Bulk Density	.526		.538		.522		.537	
BD w/antistat								
Viscosity	.665		.659		.660		.658	
RVCN	.065		.070		.062		.060	

Mirrex Shipments ONLY

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>.13</u>	<u>3.89</u>	<u>8.66</u>	<u>19.46</u>	<u>11.48</u>	<u>4.94</u>	<u>1.13</u>
%	<u>0.0</u>	<u>.3</u>	<u>7.8</u>	<u>17.3</u>	<u>39.4</u>	<u>23.0</u>	<u>9.9</u>	<u>2.3</u>

Static Flow: 019.7

Avg. Microns: 136.1

Color L: 98.39 a 0.72 b 1.70

Technician: Co, ES, MT

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Phone (601) 369-8111



CERTIFICATE OF ANALYSIS

Date: 6 March 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45765

Date of Shipment: 4 March 91

Order No.: 897918-029

Property Test Method Analysis

Moisture, % ABR-1A 0.13

Bulk Density, ABR-2A 0.519
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.3	3.8	14.5	40.2	28.1	11.6	1.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.061	0.086	0.061	0.064
0.73	0.72	0.72	0.73
4/ 8	3/ 9	7/ 11	3/ 10

All particles of contamination are less than .07mm² in size.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193390

PVC RAILCAR ANALYSIS

Load Date: 1-13-91Product: 5305Car No.: 45765Time Logged In: 1100Logged In By: 6Ship Date: 4 March 91Silo(s): 678-688Customer: Miner/CS4De Cal897918-029No MetalJUGS

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.13		.07		.05		.03	

Contamination Syntron Method	4/8		3/9		7/11		3/10	
Wet Method								
Bulk Density	.524		.516		.522		.514	
BD w/antistat								
Viscosity	.726		.722		.722		.726	
RVCM	.061		.086		.061		.064	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	3/17		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.14	1.90	7.26	19.89	14.05	5.81	0.75
%	0.0	0.3	3.8	14.5	40.2	28.1	11.6	1.5

Static Flow: 0 19.3% Glassies: <1%Avg. Microns: 131.2Color L: 97.14 a 0.23 b 1.52CPA: 20.5Technician: Pete + HDL

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



CERTIFICATE OF ANALYSIS

Date: 6 March 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45760

Date of Shipment: 4 March 91

Order No.: 897918-030

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

Moisture, %	ABR-1A	0.22
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.525
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.2	6.7	16.7	38.6	24.4	11.7	1.7

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A CA CB B

0.215	0.083	0.075	0.050
0.72	0.72	0.72	0.72
3/ 7	2/ 11	6/ 13	2/ 10

All particles of contamination are less than .07mm² in size.

Billy P. Sizemore
Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193392

PVC RAILCAR ANALYSIS

Load Date: 1-24-91Product: 5305Car No: 45760Time Logged In: 2300Logged In By: RHShip Date: 4 March 91Silo(s): 678-680Customer: Murray/CSHno metalDeCal897918-030Samples in Tugs.

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.18		.17		.22		.18	

Contamination Syntron Method	3/7		2/11		6/13		2/10	
Wet Method								
Bulk Density	.526		.527		.521		.527	
BD w/antistat								
Viscosity	.720		.720		.722		.721	
RVCM	.215		.083		.075		.050	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	3/5		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.12</u>	<u>3.37</u>	<u>8.33</u>	<u>18.52</u>	<u>12.21</u>	<u>5.85</u>	<u>.85</u>
%	<u>0.0</u>	<u>.2</u>	<u>6.7</u>	<u>16.7</u>	<u>38.6</u>	<u>24.4</u>	<u>11.7</u>	<u>1.7</u>

Static Flow: 0 17.7 % Glassies: 2 1% Avg. Microns: 134.3Color L: 98.35 a .16 b 1.34 CPA: 20.6Technician: EO + ES

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Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: 25 Feb. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45747

Date of Shipment: 22 Feb. 91

Order No.: 897918-023

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

Moisture, %	ABR-1A	0.08
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.533
------------------------	--------------	-------

Particle Size,	ABR-3
----------------	-------

% on

40	60	80	100	120	140	200	PAN
0.00	0.1	4.4	14.4	38.9	26.4	13.8	2.1

BY COMPARTMENT

Residual VCM, PPM ABR-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A CA CB B

0.073	0.046	0.082	0.053
0.72	0.74	0.73	0.73
2/ 3	1/ 5	2/ 6	1/ 5

All particles of contamination are less than .07mm² in size.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193394

PVC RAILCAR ANALYSIS

Load Date: 1-4-91 Product: 5305 Car No: 45747Time Logged In: 10:30 Logged In By: RHShip Date: 22 Silo(s): 678 Customer: Murrey / CSU
897918-023

N x METAL		PCA						0100 T8	
	(A)		(CA)		(CB)		(B)		
	1st	2nd	1st	2nd	1st	2nd	1st	2nd	
Moisture	.06		.08		.06		.05		
Contamination Syntron Method	$\frac{2}{3}$		$\frac{1}{5}$		$\frac{2}{6}$		$\frac{1}{5}$		
Wet Method	.								
Bulk Density	.531		.533		.534		.535		
BD w/antistat									
Viscosity	.723		.739		.729		.727		
RVCM	.073		.046		.082		.053		
Blown Film									
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>0.00</u>	<u>0.05</u>	<u>2.20</u>	<u>7.18</u>	<u>19.44</u>	<u>13.20</u>	<u>6.88</u>	<u>103</u>
%	<u>0.00</u>	<u>0.1</u>	<u>4.4</u>	<u>14.4</u>	<u>38.9</u>	<u>26.4</u>	<u>13.8</u>	<u>2.1</u>

Static Flow: 0 17.7 % Glassies: <1 Avg. Microns: 129.9Color L: 101.35 a 0.64 b 2.64 CPA: 20.1Technician: A.J. + R.H.

329-2802

TO: John Olson
FROM: Jim Edwards
DATE: March 8, 1991
SUBJECT: Wet RC# GACX 73381 at AMC

Interoffice
Communication

VISTA

American Mirrex's Lynne Webb sent a wet resin sample from the top of compartment CA of the subject 5305 railcar. Please refer to the attached note. We then requested for the CSX Terminal to send us top and bottom samples from all four compartments. These samples showed the top of CA and the bottom of CB were wet. Please refer to the attached analysis sheet. The lab retain samples for this car were dry.

We recommended that both CA and CB compartments be returned to the plant. Please research the production of this car of 5305 so we can understand how this material passed our Quality Control.

Sincerely,



Jim Edwards
Chief Plant Chemist

cc: RWS, DCS, JRW, BPS, AEB, LDH, DEK

A

3/5/91

Jim Edwards,

Enclosed ~~are~~ some of the discolored clumps we found in our pushment sample of RC # 73381, Comp AC. We ran a % Volatility and the result was 5.3%. I hope the sample arrives in good shape. If you have any questions, please call.

Jayne Webb
American Murex
302-836-7542

SHIPPING SAMPLE LOG

Railcars

DATE 3-08-91

ORIGINAL INFO.											DURO	SPEC. GRAV.	HS	HP
Car No.	73381 GACX	Comp.	T/B Moist.	Screens 40 200 Pan	Bulk	Gel	Brab.	T-B Cont.	Static Flow	Color	T1	T2-T1	EQ-T	FT
TYPE	5305	A	.06							99.39 0.24 1.45				
SILO NO.	Small Bags	CA	.11							99.22 0.28 1.58				
TIME/BY	1	CB	.58							99.43 0.12 1.45				
SAMPLED BY	3/05/91	B	.09							99.33 0.32 1.57				
TIME SAMPLED		RESAMPLE RESULTS												
TESTED BY		A	.07											
	1-3-91	CA	.09											
		CB	.15											
		B	.16											

TER

Car No.	73381 GACX	Comp.	T/B Moist.	Screens 40 200 Pan	Bulk	Gel	Brab.	T-B Cont.	Static Flow	Color				
TYPE	5305	A	.04							99.41 0.32 1.48				
SILO NO.	Large Bags	CA	.43							99.29 0.32 1.60				
TIME/BY	1	CB	.08							99.31 0.26 1.66				
SAMPLED BY		B	.04							99.13 0.52 1.68				
TIME SAMPLED		RESAMPLE RESULTS												
TESTED BY		A												
		CA												
		CB												
		B												

VAB.0001193399

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

A

CERTIFICATE OF ANALYSIS

Date: 25 Feb. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: GACX-73381

Date of Shipment: 22 Feb. 91

Order No.: 897918-034

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.06
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.525
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.5	2.9	11.5	36.7	28.8	16.8	2.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.056	0.054	0.055	0.054
0.72	0.72	0.72	0.72
3/ 9	4/ 8	3/ 6	4/ 10

All particles of contamination are less than .07mm² in size.


Bill P. Sizemore

Laboratory Supervisor/Lead

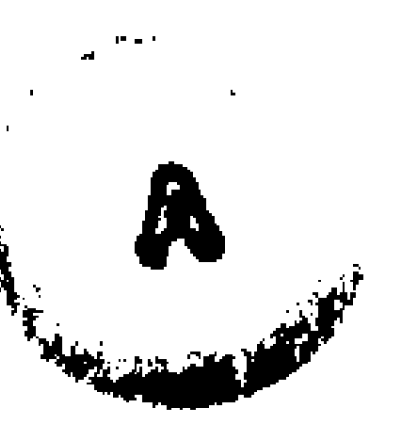
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VAB.0001193400

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: 25 Feb. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: GACX-73381

Date of Shipment: 22 Feb. 91

Order No.: 897918-034

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.06
Bulk Density, GM/CC	ABR-2A	0.525

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.5	2.9	11.5	36.7	28.8	16.8	2.8

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

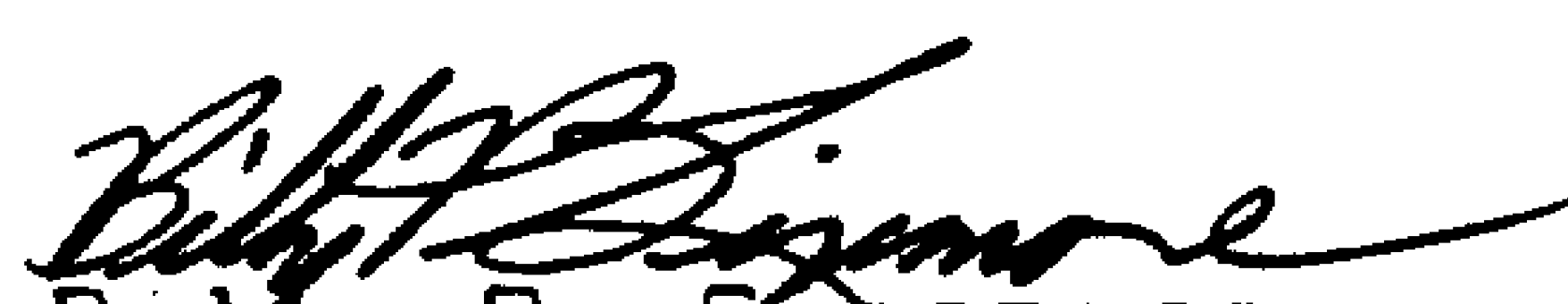
Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.056	0.054	0.055	0.054
0.72	0.72	0.72	0.72
3/ 9	4/ 8	3/ 6	4/ 10

All particles of contamination are less than .07mm² in size.

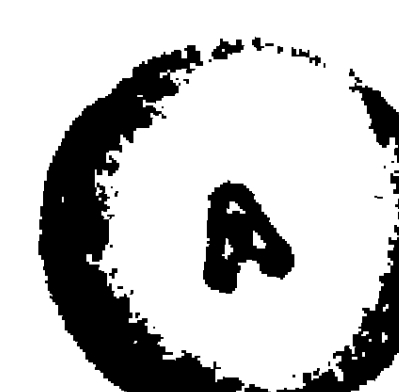

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193401

PVC RAILCAR ANALYSIS

Load Date: 1-2-91Product: 5305Car No.: 73381Time Logged In: 0600Logged In By: CoShip Date: 22 Feb 91Silo(s): 687Customer: Miner897918-034No METALDeal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.05		.06		.05	
Contamination Syntron Method	<u>3/9</u>		<u>4/8</u>		<u>3/6</u>		<u>4/10</u>	
Wet Method								
Bulk Density	.531		.529		.521		.578	
BD w/antistat								
Viscosity	.722		.718		.723		.719	
RVCM	.056		.054		.055		.054	
Blown Film								
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>5/10</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.23</u>	<u>1.45</u>	<u>5.76</u>	<u>18.16</u>	<u>14.40</u>	<u>8.42</u>	<u>1.40</u>
%	<u>0.00</u>	<u>.5</u>	<u>2.9</u>	<u>11.5</u>	<u>36.7</u>	<u>28.8</u>	<u>16.8</u>	<u>2.8</u>

Static Flow: 0.183 % Glassies: <1% Avg. Microns: 126.2Color L: 99.24 a 0.29 b 1.63 CPA: 20.4Technician: A.J. + R.H.

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: 21 Feb. 91

FAX No. 302-B36-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45866

Date of Shipment: 18 Feb. 91

Order No.: 897918-031

Property Test Method Analysis

Moisture, % ABR-1A 0.07

Bulk Density, ABR-2A 0.537
GM/CC

Particle Size, ABR-3
% on

40	60	80	100	120	140	200	PAN
0.00	0.3	7.3	18.8	37.9	19.1	14.2	2.4

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

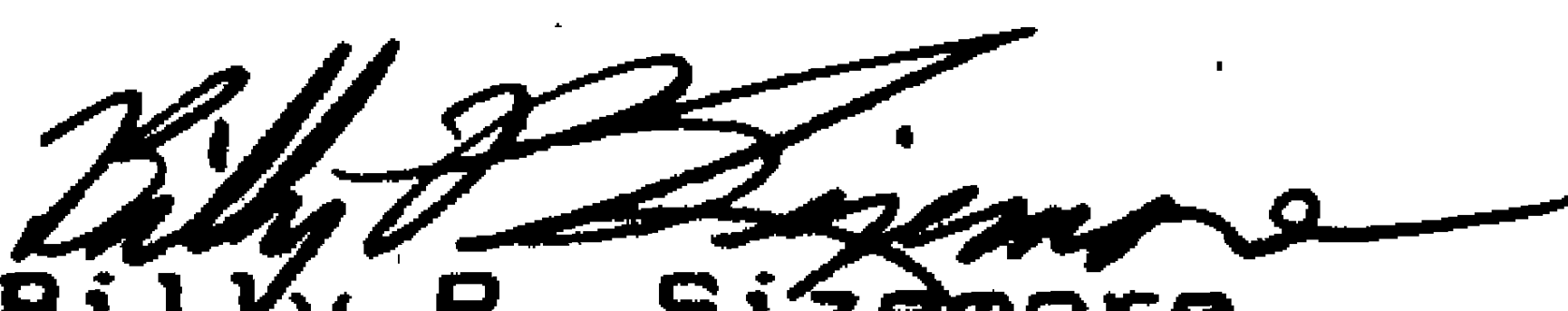
Contamination,

Syntron, Blk/Brn ABR-5A

Made with mixed calcified water.

A	CA	CB	B
0.019	0.016	0.003	0.001
0.73	0.73	0.73	0.73
2/ 5	3/ 7	2/ 5	2/ 8

All particles of contamination are less than .07mm² in size.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

PVC RAILCAR ANALYSIS

VIPX

Load Date: 10-30-90Product: 5305Car No. 45866Time Logged In: 2300Logged In By: RJFShip Date: 18Silo(s): 678, 680Customer: IN BOTTLE DES897918-031No METALMXD

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.04		.07		.05	
Contamination Syntron Method	2/5		3/7		2/5		2/8	
Wet Method								
45 Mesh								
Bulk Density	.535		.537		.536		.541	
BD w/antistat								
Viscosity	.727		.726		.729		.726	
RVCM	.019		.016		.003		.001	
Blown Film								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.13</u>	<u>3.63</u>	<u>9.40</u>	<u>18.48</u>	<u>9.54</u>	<u>7.12</u>	<u>1.22</u>
%	<u>0.01</u>	<u>.3</u>	<u>7.3</u>	<u>18.8</u>	<u>37.9</u>	<u>19.1</u>	<u>14.2</u>	<u>2.4</u>

Static Flow: 0.17.9Avg. Microns: ~~134.8~~ 134.8Color L: 99.04 a 0.28 b 1.45 CPA: _____

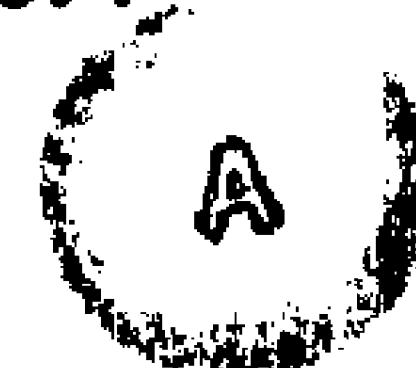
% Glassies: _____

Technician: RH + M.B.

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: 21 Feb. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: ACFX-41170

Date of Shipment: 18 Feb. 91

Order No.: 897918-032

Property Test Method Analysis

Moisture, % ABR-1A 0.03

Bulk Density, ABR-2A 0.540
GM/CC

Particle Size, ABR-3

% on

40	60	80	100	120	140	200	PAN
0.00	0.4	7.3	16.4	32.6	21.7	19.1	2.5

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.017	0.017	0.013	0.020
0.74	0.73	0.73	0.73
5/ 9	11/ 5	5/ 7	3/ 8

All particles of contamination are less than .07mm² in size.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193405

A

PVC RAILCAR ANALYSIS

Load Date: 11-3-90 Product: 5305 Car No.: 41170Time Logged In: 05:30 Logged In By: P.T.Ship Date: 18 Silo(s): 683+684 Customer: DeS
D.Cal. JuGS 897918-032

Metal	0		0		0		0	
	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.02		.02		.03		.02	
Contamination Syntron Method	5/9		11/5		5/7		3/8	
Wet Method								
45 Mesh								
Bulk Density	.548		.542		.534		.538	
BD w/antistat								
Viscosity	.737		.734		.730		.731	
RVCM ✓	.017		.017		.013		.020	
Blown Film								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.06</u>	<u>0.18</u>	<u>3.65</u>	<u>8.18</u>	<u>16.95</u>	<u>10.85</u>	<u>9.55</u>	<u>1.23</u>
%	<u>0.0</u>	<u>0.4</u>	<u>7.3</u>	<u>16.4</u>	<u>32.6</u>	<u>21.7</u>	<u>19.1</u>	<u>2.5</u>

Static Flow: 0, 8.6 Avg. Microns: 131.4Color L: 99.63 a 0.28 b 1.72 CPA: 19.8% Glassies: <1%Technician: P.T. + H.D.L.20:30

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: 14 Feb. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynn Webb

Railcar No.: UTCX-46510

Date of Shipment: 12 Feb. 91

Order No.: 900738-002

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.12
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.535
------------------------	--------------	-------

Particle Size,	ABR-3
----------------	-------

% on

40	60	80	100	120	140	200	PAN
0.00	0.2	8.5	18.0	39.4	22.4	9.2	2.3

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
---	----	----	---

0.059	0.069	0.069	0.070
0.66	0.66	0.66	0.66
2/ 8	1/ 5	2/ 8	1/ 6


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193407



PVC RAILCAR ANALYSIS

 Load Date: 2-6-91 Product: 5265 Car No.: 46510

 Time Logged In: 01:30 Logged In By: A.J.

 Ship Date: 12 Silo(s): 686, 687 Customer: CSE / Nurel
900 738-002
no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.09		.12		.08	
Contamination	$\frac{2}{8}$	—	$\frac{1}{5}$	—	$\frac{2}{8}$	—	$\frac{1}{6}$	—
Bulk Density	.538		.536		.541		.526	
BD w/antistat								
Viscosity	.663		.659		.664		.663	
RVCN	.059		.069		.069		.070	

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	<u>0.00</u>	<u>0.11</u>	<u>4.27</u>	<u>9.02</u>	<u>19.67</u>	<u>11.21</u>	<u>4.60</u>	<u>1.17</u>
%	<u>0.0</u>	<u>0.2</u>	<u>8.5</u>	<u>18.0</u>	<u>39.4</u>	<u>22.4</u>	<u>9.2</u>	<u>2.3</u>

 Static Flow: 0 19.7 Avg. Microns: 137.1

 Color L: 98.24 a .68 b 1.77

 Technician: G + ES

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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



CERTIFICATE OF ANALYSIS

Date: 14 Feb. 91

FAX No. 302-836-5972

VISTA

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: VIPX-45850

Date of Shipment: 11 Feb. 91

Order No.: 897918-028

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.18
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.553
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.3	13.5	23.7	37.9	14.4	8.6	1.6

BY COMPARTMENT

Residual VCM, PPM ABR-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with non-decalcified water.

A	CA	CB	B
0.099	0.006	0.019	0.104
0.73	0.74	0.74	0.73
12/ 4	9/ 5	10/ 4	9/ 6

All particles of contamination are less than .07mm² in size.


Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193409

PVC RAILCAR ANALYSIS


 Load Date: 10-21-90 Product: 5305 Car No.: 45850

 Time Logged In: 00:30 Logged In By: P.6

 Ship Date: 11 Silo(s): 687+688 Customer: D&S
897918-028

	0		0		0		0	
	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.17		.15		.18		.16	
Contamination Syntron Method	12/4		9/5		10/4		9/6	
Wet Method								
45 Mesh	%		%		%		%	
Bulk Density	.551		.550		.555		.556	
BD w/antistat								
Viscosity	.730		.738		.739		.732	
RVCM	.099		.006		.019		.104	
Blown Film								

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.15</u>	<u>6.77</u>	<u>11.86</u>	<u>19.15</u>	<u>7.22</u>	<u>4.30</u>	<u>.80</u>
%	<u>0.0</u>	<u>.3</u>	<u>13.5</u>	<u>23.7</u>	<u>37.9</u>	<u>14.4</u>	<u>8.6</u>	<u>1.6</u>

 Static Flow: 0 17.9

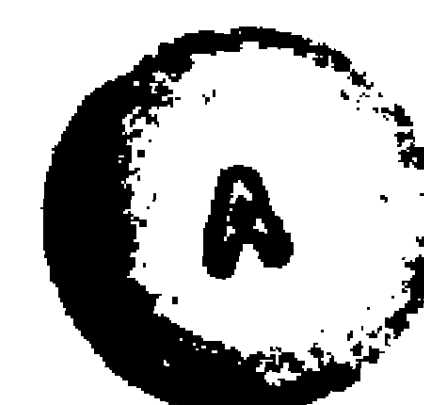
 Avg. Microns: 145.3

 Color L: 99.10 a .43 b 1.67 CPA: 19.9

 % Glassies: <1%

 Technician: MATE

PVC RAILCAR ANALYSIS


 Load Date: 9-9-90 Product: 5265 Car No.: 46584

 Time Logged In: 03:00 Logged In By: P.T.

 Ship Date: 28 Jan 91 Silo(s): 680 Customer: PFS
900738-001

	0		0		0		0	
	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.16		.15		.18		.19	
Contamination	<u>1</u> 3	—	<u>6</u> 4	—	<u>3</u> 4	—	<u>2</u> 5	—
Bulk Density	.542		.546		.544		.540	
BD w/antistat								
Viscosity	.659		.658		.658		.656	
RVCN	.082		.082		.080		.081	

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>.11</u>	<u>3.37</u>	<u>7.68</u>	<u>19.25</u>	<u>10.80</u>	<u>6.92</u>	<u>1.80</u>
%	<u>0.0</u>	<u>.2</u>	<u>6.7</u>	<u>15.4</u>	<u>38.7</u>	<u>21.6</u>	<u>13.8</u>	<u>3.6</u>

 Static Flow: 0 / 184 Avg. Microns: 131.7

 Color L: 99.00 a 1.54 b 1.96

 Technician: MSTB

CERTIFICATE OF ANALYSIS

Date: 30 Jan. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5265

Attention: Lynn Webbb

Railcar No.: UTCX-46584

Date of Shipment: 28 Jan. 91

Order No.: 900738-001

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

Moisture, %	ABR-1A	0.19
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.543
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.2	6.7	15.4	38.7	21.6	13.8	3.6

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

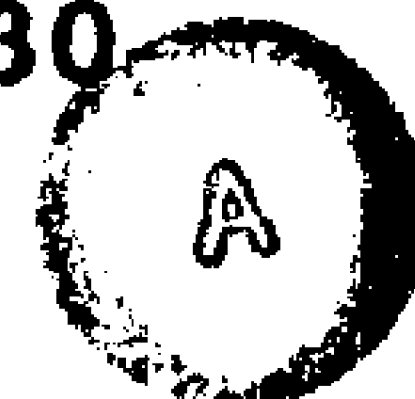
Syntron, Blk/Brn	ABR-5A
------------------	--------

A	CA	CB	B
0.082	0.082	0.080	0.081
0.66	0.66	0.66	0.66
1/ 3	6/ 4	3/ 4	2/ 5

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111



PVC RAILCAR ANALYSIS

PLCX

Load Date: 12-06-90Product: 5305Car No.: 46860Time Logged In: 1200Logged In By: AJShip Date: 4 Feb. 91 Silo(s): 678-679-687-680 Customer: CS4 Bids (Miner)
~~897918-027~~No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.025		.104		.106		.108	
Contamination Syntron Method	2/3		3/5		3/4		3/8	
Wet Method	0/1		1/1		1/2		0/1	
Bulk Density	.547		.544		.545		.546	
BD w/antistat								
Viscosity	.725		.724		.726		.723	
RVCM	.026		.193		.053		.048	
Blown Film								

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>3.06</u>	<u>8.16</u>	<u>19.47</u>	<u>12.95</u>	<u>5.59</u>	<u>0.85</u>
%	<u>0.00</u>	<u>.3</u>	<u>6.1</u>	<u>16.3</u>	<u>38.5</u>	<u>25.9</u>	<u>11.2</u>	<u>1.7</u>

Static Flow: 017.8 % Glassies: <1% Avg. Microns: 133.9Color L: 98.94 a .127 b 1.52 CPA: 20.4Technician: AJ + RH

CERTIFICATE OF ANALYSIS

Date: 5 Feb. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: PLCX-46860

Date of Shipment: 4 Feb. 91

Order No.: 897918-027

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

Moisture, %	ABR-1A	0.08
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.545
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.3	6.1	16.3	38.5	25.9	11.2	1.7

BY COMPARTMENT

Residual VCM, PPM ABR-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.026	0.724	0.053	0.048
0.73	0.72	0.73	0.72
2/ 3	3/ 5	2/ 4	3/ 8

All particles of contamination are less than .07mm² in size.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193414

Vista Polymers

Highway 25

Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 12-6-90 Product: 5305Car No.: 42664Time Logged In: 0600Logged In By: 6Ship Date: 4 Feb. 91 Silo(s): 687, 688Customer: Murray / Bids Term.897918-026NO METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.05		.04		.05		.03	

Contamination Syntron Method	2/8		3/7		1/7		2/5	
Wet Method								
Bulk Density	541		542		540		545	
BD w/antistat								
Viscosity	.722		.724		.720		.723	
RVCM	.106		.042		.062		.055	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	7		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.12</u>	<u>4.08</u>	<u>9.04</u>	<u>17.07</u>	<u>11.68</u>	<u>4.96</u>	<u>0.29</u>
%	<u>0.00</u>	<u>0.2</u>	<u>8.2</u>	<u>18.1</u>	<u>38.5</u>	<u>23.4</u>	<u>10.0</u>	<u>1.6</u>

Static Flow: 017.9 % Glassies: 51% Avg. Microns: 137.0Color L: 98.67 a 0.25 b 1.44 CPA: 20.6Technician: A.J. & R.H.

Vista Polymers

Highway 25
P.O.Box 91

Aberdeen, MS 39730

CERTIFICATE OF ANALYSIS

Date: 5 Feb. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: PLCX-42664

Date of Shipment: 4 Feb. 91

Order No.: 897918-026

Property Test Method Analysis

Moisture, % ABR-1A 0.05

Bulk Density, ABR-2A 0.542
GM/CC

Particle Size, ABR-3

40	60	80	100	120	140	200	PAN
0.00	0.2	8.2	18.1	38.5	23.4	10.0	1.6

% on

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

A	CA	CB	B
0.106	0.042	0.062	0.055
0.72	0.72	0.72	0.72
2/ 8	3/ 7	1/ 7	2/ 5

~~Made with mixed deionized water.~~

All particles of contamination are less than .07mm² in size.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193416

A

CERTIFICATE OF ANALYSIS

Date: 5 Feb. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: PLCX-42664

Date of Shipment: 4 Feb. 91

Order No.: 897918-026

Property	Test Method	Analysis
----------	-------------	----------

Moisture, %	ABR-1A	0.05
-------------	--------------	------

Bulk Density, GM/CC	ABR-2A	0.542
------------------------	--------------	-------

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

40	60	80	100	120	140	200	PAN
0.00	0.2	8.2	18.1	38.5	23.4	10.0	1.6

BY COMPARTMENT

Residual VCM, PPM	ABGC-26
-------------------	---------

Inherent Viscosity	ABR-10B
--------------------	---------

Contamination,

Syntron, Blk/Brn	ABR-5A
------------------	--------

Made with decalcified water.

A	CA	CB	B
0.106	0.042	0.062	0.055
0.72	0.72	0.72	0.72
2/ 8	3/ 7	1/ 7	2/ 5

All particles of contamination are less than .07mm² in size.

Billy P. Sizemore

Laboratory Supervisor/Lead

Phone (601) 369-8111

VAB.0001193417

-15

11/11/11

PVC RAILCAR ANALYSIS

Load Date: 12-1-90Product: 5305Car No.: 4445Time Logged In: 11:30Logged In By: PT.Ship Date: 4 Feb. 91Silo(s): 683+684Customer: Q Mirre/CSH897918-025No Metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.02		.04		.06		.04	

Contamination Syntron Method	7/17		8/16		5/11		6/13	
Wet Method								
Bulk Density	.543		.541		.545		.541	
BD w/antistat								
Viscosity	.129		.125		.122		.125	
RVCM	.064		.060		.070		.051	
Blown Film								

Tappi Test Contamination Composite	.06 or less	.07 ----- .15	.20 ----- .60
	7/15		

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.26</u>	<u>3.47</u>	<u>7.89</u>	<u>21.86</u>	<u>12.69</u>	<u>3.91</u>	<u>0.71</u>
%	<u>0.00</u>	<u>.5</u>	<u>6.9</u>	<u>15.8</u>	<u>42.2</u>	<u>25.4</u>	<u>7.8</u>	<u>1.4</u>

Static Flow: 017.9 % Glassies: <1% Avg. Microns: 136.8Color L: 99.15 a 0.32 b 1.50 CPA: 20.8Technician: A.L. & R.H.

CERTIFICATE OF ANALYSIS

Date: 5 Feb. 91

FAX No. 302-836-5972

Customer: American Mirrex
P. O. Box 728
New Castle, DE 19720

Product: 5305

Attention: Lynn Webb

Railcar No.: ACFX-41145

Date of Shipment: 4 Feb. 91

Order No.: 897918-025

Property	Test Method	Analysis																
Moisture, %	ABR-1A	0.06																
Bulk Density, GM/CC	ABR-2A	0.543																
Particle Size, % on	ABR-3	<table border="1"> <tr> <td>40</td> <td>60</td> <td>80</td> <td>100</td> <td>120</td> <td>140</td> <td>200</td> <td>PAN</td> </tr> <tr> <td>0.00</td> <td>0.5</td> <td>6.9</td> <td>15.8</td> <td>42.2</td> <td>25.4</td> <td>7.8</td> <td>1.4</td> </tr> </table>	40	60	80	100	120	140	200	PAN	0.00	0.5	6.9	15.8	42.2	25.4	7.8	1.4
40	60	80	100	120	140	200	PAN											
0.00	0.5	6.9	15.8	42.2	25.4	7.8	1.4											

40	60	80	100	120	140	200	PAN
0.00	0.5	6.9	15.8	42.2	25.4	7.8	1.4

BY COMPARTMENT

Residual VCM, PPM ABGC-26

Inherent Viscosity ABR-10B

Contamination,

Syntron, Blk/Brn ABR-5A

Made with decalcified water.

A	CA	CB	B
0.064	0.060	0.070	0.051
0.73	0.73	0.72	0.73
7/ 17	8/ 16	5/ 11	6/ 13

All particles of contamination are less than .07mm² in size.

Billy P. Sizemore

Laboratory Supervisor/Lead

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