CERTIFICATE OF ANALYSIS

Date: 8 May 91

Fax No. 209-651-2231

Customer: B. P. Performance
7227 Doe Ave.
Visalia CA 93291

Product: **5415**

Order No.: 844050-068

Attention: Marty Jones

Railcar No.: VIPX-45739

Date of Shipment: 6 May 91

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.21
Bulk Density, gm/cc	ABR-2B	0.502
Brabender Dry Time, Mins.	ABR-7	4.9
Particle Size Dist.	ABR-3	
40 Mesh		0.00
200 Mesh		3.1
Pan		1.3
Residual VCM, ppm	ABGC-26	0.014
Inherent Viscosity	ABR-10	1.02

Billy P. Sizemore

Laboratory Supervisor/Lead

Vista Polymers Highway 25 Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

UTPX

Load Date: 5-4-91 Product: 5415 Car No.: 45739

Time Logged In: 0545 Logged In By: P.T.

Ship Date: 6 May 91 Silo(s): 690+691 Customer: BP Polymers 844050-068

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.19		.17		.14		.21	
Contamination	2/9	2/11	3/15	3/12	2/7	2/5	3/6	3/7
Bulk Density	.501		.510		.499		.498	
BD wo/antistat								
Hard Particle	50/24/3 GE	—	—	—	—	—	—	—
Viscosity	1.020							
RVCM	.014							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	.30	20.96	15.80	7.85	2.85	1.53	.63
%	0.0	.6	41.9	31.6	15.8	5.7	3.1	1.3

Drytime: 4.9 Static Flow: 0 / 9.4 Avg. Microns: 174.7

Color L: 100.92 a 0.05 b 1.34

METS: 9.291 / 116.9 %

Technician: MT, ES, G

VAB.0001194150

CERTIFICATE OF ANALYSIS

Date: 2 May 91

Fax No. 209-651-2231

Customer: B. P. Performance
7227 Doe Ave.
Visalia CA 93291

Product: 5415

Order No.: 844050-067

Attention: Marty Jones

Railcar No.: ACFX-41175

Date of Shipment: 29 Apr. 91

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.25
Bulk Density, gm/cc	ABR-2B	0.520
Brabender Dry Time, Mins.	ABR-7	4.9
Particle Size Dist.	ABR-3	
40 Mesh		0.00
200 Mesh		2.8
Pan		1.2
Residual VCM, ppm	ABGC-26	0.030
Inherent Viscosity	ABR-10	1.03

Billy P. Sizemore

Laboratory Supervisor/Lead

Vista Polymers Highway 25 Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-28-91 Product: 5415 Car No.: ACFX 41175

Time Logged In: 1500 Logged In By: AJ

Ship Date: 29 Apr. 91 Silo(s): 698 / 691 Customer: BP Polymers 844050-067

- NO METAL -	A Top		CA Top		CB Top		B Top	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.24		.21		.25		.24	
Contamination	2/12	3/9	2/8	4/7	1/11	2/8	3/14	1/12
Bulk Density	.519		.521		.519		.521	
BD wo/antistat								
Hard Particle	59/27/3 96	—	—	—	—	—	—	—
Viscosity	1.033							
RVCM	.030							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	1.13	26.02	12.78	5.86	2.26	1.42	0.62
%	0.0	2.3	52.0	25.6	11.6	4.5	2.8	1.2

Drytime: 4.9 Static Flow: 0 / 7.9 Avg. Microns: 184.7

Color L: 100.53 a 0.02 b 1.36

METS: 9.136 / 117.4 %

Technician: TE-JPS

VAB.0001194152

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CERTIFICATE OF ANALYSIS

Date: 2 May 91

Fax No. 209-651-2231

Customer: B. P. Performance
7227 Doe Ave.
Visalia CA 93291

Product: **5415**

Order No.: 844050-066

Attention: Marty Jones

Railcar No.: PLCX-44463

Date of Shipment: 29 Apr. 91

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.23
Bulk Density, gm/cc	ABR-2B	0.507
Brabender Dry Time, Mins.	ABR-7	4.9
Particle Size Dist.	ABR-3	
40 Mesh		0.00
200 Mesh		4.0
Pan		1.3
Residual VCM, ppm	ABGC-26	0.019
Inherent Viscosity	ABR-10	1.03

Billy P. Sizemore

Laboratory Supervisor/Lead

VAB.0001194153

Vista Polymers Highway 25 Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

[redacted] PLWX

Load Date: 4-26-91 Product: 5415 Car No.: 44463

Time Logged In: 24:00 Logged In By: Pete

Ship Date: 29 Apr. 91 Silo(s): 690+691 Customer: BP Polymers 844050-06B

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.20		.17		.23		.21	
Contamination	2/4	5/3	1/5	7/2	3/5	8/4	2/4	9/3
Bulk Density	.517		.508		.509		.494	
BD wo/antistat								
Hard Particle	50/40/7 Dec	—	—	—	—	—	—	—
Viscosity	1.029							
RVCM	.019							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	.65	21.11	14.13	7.93	3.38	2.00	.67
%	0.0	1.3	42.2	28.3	16.1	6.8	4.0	1.3

Drytime: 4.9 Static Flow: 0 179 Avg. Microns: 174.8

Color L: 60.62 a .00 b 1.43

METS: 9451, 121.5%

Technician: CO + RH

VAB.0001194154

A

CERTIFICATE OF ANALYSIS

Date: 26 Apr. 91 Fax No. 209-651-2231

Customer: B. P. Performance
7227 Doe Ave.
Visalia CA 93291

Product: **5415**

Order No.: 844050-065

Attention: Marty Jones

Railcar No.: VIPX-45757

Date of Shipment: 23 Apr. 91

Property	Test Method	Analysis
Moisture, %	ABR-1A	0.19
Bulk Density, gm/cc	ABR-2B	0.506
Brabender Dry Time, Mins.	ABR-7	5.0
Particle Size Dist.	ABR-3	
40 Mesh		0.00
200 Mesh		3.1
Pan		1.2
Residual VCM, ppm	ABGC-26	0.001
Inherent Viscosity	ABR-10	1.02

Billy P. Sizemore

Laboratory Supervisor/Lead

Vista Polymers Highway 25 Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

Load Date: 4-22-91 Product: 5415 Car No.: VIPX 45757

Time Logged In: 04:00 Logged In By: P.T.

Ship Date: 23 Apr. 91 Silo(s): 690 Customer: BP Polymers 844050-065

1200 4-23-91

-NO METAL-	A Top		CA Top		CB Top		B Top	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.14		.16		.10		.19	
Contamination	4/9	2/9	3/6	4/5	6/9	5/8	7/10	3/7
Bulk Density	.512		.494		.512		.506	
BD wo/antistat								
Hard Particle	10/3 pc	—	—	—	—	—	—	—
Viscosity	1.016							
RVCM	.001							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.43	22.45	14.44	7.65	2.93	1.54	0.61
%	0.0	0.9	44.9	28.9	15.1	5.9	3.1	1.2

Drytime: 5.0 Static Flow: 018.4 Avg. Microns: 176.9

Color L: 100.08 a 0.08 b 1.82

METS: 9,620/123.7 %

Technician: TE - JPS

VAB.0001194156

Vista Polymers Highway 25 Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 1-5-91 Product: 5415 Car No.: 41157

Time Logged In: 1800 Logged In By: RJ

Ship Date: 30 Jan 91 Silo(s): 690, 691 Customer: B Page / B R Perry

NO METAL

	A		CA		CB		B	
	1st	2nd Top	1st	2nd Top	1st	2nd Top	1st	2nd Top
Moisture	.13		.16		.16		.15	
Contamination	1/5	2/6	2/4	1/3	3/8	2/9	5/25	3/13
Bulk Density	.509		.511		.508		.514	
BD wo/antistat								
Hard Particle	5/4 HA	—	—	—	—	—	—	—
Viscosity	1.020							
RVCM	.007							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.16	11.80	13.61	16.22	4.96	2.52	0.67
%	0.0	0.3	23.6	27.2	32.4	9.9	5.0	1.3

Drytime: 5.0 Static Flow: 0 18.9 Avg. Microns: 157.1

Color L: 100.58 a -0.03 b 1.43

METS: 9,300 / 118.5 %

Technician: TE - JPS

VAB.0001194157

Vista Polymers Highway 25 Aberdeen, MS 39730 A

PVC RAILCAR ANALYSIS

Load Date: 1-19-91 Product: 5415 Car No.: 890187

Time Logged In: 1915 Logged In By: TE for AJ

Ship Date: 30 Jan. 91 Silo(s): 690-691 Customer: BP Perf

NO METAL	A		CA		CB		B	
	1st	2nd Top	1st	2nd Top	1st	2nd Top	1st	2nd Top
Moisture	.12		.08		.12		.10	
Contamination	3/9	2/8	8/14	6/10	4/15	2/7	8/21	9/11
Bulk Density	.506		.511		.515		.518	
BD wo/antistat								
Hard Particle	8/4 pc	—	—	—	—	—	—	—
Viscosity	1.005							
RVCM	.003							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.21	19.16	14.99	9.06	4.20	1.54	0.60
%	0.0	0.4	38.3	30.0	18.6	8.4	3.1	1.2

Drytime: 5.0 Static Flow: 0 / 8.4 Avg. Microns: 170.8

Color L: 100.69 a -0.07 b 1.36

METS: 9.136 / 118.9 %

Technician: TE - DPS

VAB.0001194158

Vista Polymers Highway 25 Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 1-16-91 Product: 5415 Car No.: 890183

Time Logged In: 0600 Logged In By: TE

Ship Date: 25 Jan. 91 Silo(s): 690 Customer: [illegible]

no metal

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.11		.06		.06		.07	
Contamination	3/1	7/4	2/2	8/4	2/2	6/3	4/1	8/2
Bulk Density	.515		.526		.517		.518	
BD wo/antistat								
Hard Particle	4/1GE	—	—	—	—	—	—	—
Viscosity	1.018							
RVCM	.057							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.27	18.95	15.50	9.81	3.38	1.41	0.59
%	0.0	0.5	37.9	31.0	19.8	6.8	2.8	1.2

Drytime: 5.0 Static Flow: 0 / 9.2 Avg. Microns: 171.2

Color L: 98.80 a -.09 b 1.75

METS: 8986 / 120.4%

Technician: G & ES

2300

VAB.0001194159

Vista Polymers Highway 25 Aberdeen, MS 39730

A

PVC RAILCAR ANALYSIS

Load Date: 12-28-90 Product: 5415 Car No.: 46420

Time Logged In: 1800 Logged In By: G

Ship Date: 18 Jan. 91 Silo(s): 690-91 Customer: ~~Esso~~ ~~BLANE~~ B.P.

No Metal

	A Tops		CA Tops		CB Tops		B Tops	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.17		.26		.17		.15	
Contamination Tops 100 Grams	5/19	T 3/6	1/21	T 2/8	6/22	T 4/5	8/19	T 4/9
Bulk Density	.496		.496		.499		.496	
BD wo/antistat								
Hard Particle	8/2GB	—	—	—	—	—	—	—
Viscosity	1.003							
RVCM	.001							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.11	8.98	15.30	15.45	6.15	3.20	0.18
%	0.0	0.2	18.0	30.6	321	12.3	6.4	0.4

Drytime: 5.0 Static Flow: 0 19.2 Avg. Microns: 153.1

Color L: 100.76 a -0.06 b 1.23

METS: 9620, 121.5 %

Technician: P.T. + H.A.

VAB.0001194160

Vista Polymers Highway 25 Aberdeen, MS 39730

PVC RAILCAR ANALYSIS

A

Load Date: 12-27-90 Product: 5415 Car No.: 45775

Time Logged In: 2400 Logged In By: [redacted] BP Kerf.

Ship Date: 10 Jan 91 Silo(s): 690, 691 Customer: ~~[redacted]~~ Type I

nometal not ~~[redacted]~~

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.18		.13		.17		.18	
Contamination	2/2	6/3	1/4	7/2	2/2	9/2	3/2	5/4
Bulk Density	.514		.513		.505		.511	
BD wo/antistat								
Hard Particle	8 / 2GF	—	—	—	—	—	—	—
Viscosity	1.019							
RVCM	.001							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.08	9.41	15.55	15.10	5.97	3.10	0.80
%	0.0 / 0	0.2 / .16	18.8 / 22.49	31.1 / 37.61	30.2 / 25.27	11.9 / 9.02	6.2 / 4.25	1.6 / 1.2

Drytime: 5.0 Static Flow: 0 / 9.2 Avg. Microns: 152.8 / 155.4

Color L: 100.70 a 0.06 b 1.34

METS: 9.451 / 116.3 %

Technician: Co + ES

1000

VAB.0001194161

Vista Polymers Highway 25 Aberdeen, MS 39730

FOR CMPD

A

PVC RAILCAR ANALYSIS

ACFX

Load Date: 12-27-90 Product: 5415 Car No.: 41139

Time Logged In: 1600 Logged In By: G

Ship Date: 9 Jan. 91 Silo(s): 690-691 Customer: ~~Joint~~ BP

No METAL

	A		CA		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.06		.09		.13		.11	
Contamination	2/7	3/6	1/5	2/6	2/6	3/4	2/6	3/5
Bulk Density	.507		.516		.512		.506	
BD wo/antistat								
Hard Particle	3/1	—	—	—	—	—	—	—
Viscosity	1.018							
RVCM	.001							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.15	9.97	16.25	14.57	5.56	2.90	0.73
%	0.00/0	.3/.70	19.9/25.04	32.5/36.20	28.9/21.92	11.1/8.63	5.8/4.52	1.5/2.99

Drytime: 5.2 Static Flow: 0 19.3 Avg. Microns: 154.7/153.4

Color L: 101.03 a 0.01 b 1.46

METS: 9300 / 117.4 %

Technician: A.J. + RH

VAB.0001194162

CALUMET

PVC RAILCAR ANALYSIS

Load Date: 6-2-91 Product: 5415 Car No.: UTCX 46588

0000 617-000 Time Logged In: 06:00 Logged In By: 7 Ze

Ship Date: 7/19/91 Silo(s): 691 Customer: Metal

	A (1430)		CA (1430)		CB		B	
	1st	2nd	1st	2nd	1st	2nd	1st	2nd
Moisture	.14		.16		.14		.15	
Contamination	6/5	T 5/11	7/11	T 6/12	4/9	T 6/6	5/8	T 7/12
Bulk Density	.541		.537		.526		.532	
BD wo/antistat								
Hard Particle	6/2 RP	—	—	—	—	—	—	—
Viscosity	1.009							
RVCM	.042							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	0.00	0.59	22.76	14.56	7.20	2.66	1.65	0.59
%	0.00	1.2	45.5	29.1	14.4	5.3	3.3	1.2

Drytime: 5.1 Static Flow: 0 / 7.7 Avg. Microns: 178

Color L: 100.59 a -0.01 b 1.48

METS: 9.147 / 115.5 %

Technician: NDL + AJ.

VAB.0001194164