

LETTER OF CERTIFICATION

Date: 11-25-90

VISTA

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2351

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 11-25-90

Order No.: 831388-363

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.14</u>
Bulk Density, gm/cc	8.410	<u>.508</u>
Brabender Dry Time, mins	8.450	<u>5.1</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>5.5</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Arlis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 11-23-90 Product 5415 Trailer Number 7-2351
 Customer Althal Silo 690 Time 1030
 Technician A.J. & R.H. Order No. 831388-363

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.14		1.2		1.8/4	.508	1.51	L = 100.70		Flow
	2.		2.		2.		2.	A = 0.03		9.0
MIDDLE	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
END	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	0.50	19.76	19.42	9.58	20.45	2.75	0.67	
% on Mesh	0.00	1.0	39.5	28.8	19.0	4.9	5.5	1.3	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 11/11/90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 72351

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 11/11/90

Order No.: 831388-365

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>1.08</u>
Bulk Density, gm/cc	8.410	<u>1.525</u>
Brabender Dry Time, mins	8.450	<u>5.1</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.4</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Artis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 11-10-90 Product 5415 Trailer Number T-2351
 Customer ATHOL Silo 690 Time 1100 1215
 Technician A.J. & R.H. Order No. 831388-365

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.08		1.3		20/5	120 .525	1. 5.1	L = 100.54 A = 0.04 B = 1118		0 9.1
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

Screen Analysis _____ 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	2.17	23.98	13.72	6.30	2.06	1.69	0.68	
% on Mesh	0.00	4.3	48.0	27.4	11.4	4.1	3.4	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 _____

LETTER OF CERTIFICATION

VISTA

Date: 30 Oct. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

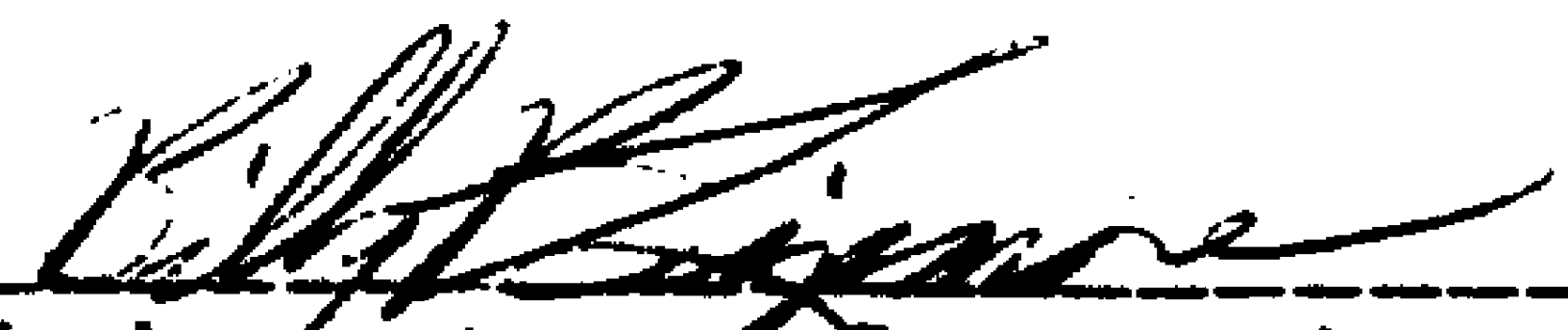
Trailer No.: F2480

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 30 Oct. 90

Order No.: 831388-367

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	___ .08 ___
Bulk Density, gm/cc	8.410	___ .497 ___
Brabender Dry Time, mins	8.450	___ 5.0 ___
Particle Size, % on	8.300	
40 Mesh		___ 0.0 ___
200 Mesh		___ 5.4 ___
Pan		___ 1.5 ___
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of ___ 1.00 ___ to ___ 1.04 ___.


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 10-30-90 Product 5415 Trailer Number T-2480
 Customer Othol Silo 690 Time 0600
 Technician C. Duthaw Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.08		1.1		1.4	1.	1.	L = 100.63		
			1/4		1/4 HA	.497	5.0	A = .12		
	2.		2.		2.	2.	2.	B = 1.32		0/8.5
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	0.00	.16	16.54	15.53	10.80	3.55	2.72	.75	
% on Mesh	0.0	.3	33.1	31.1	21.5	7.1	5.4	1.5	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 6 Nov. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

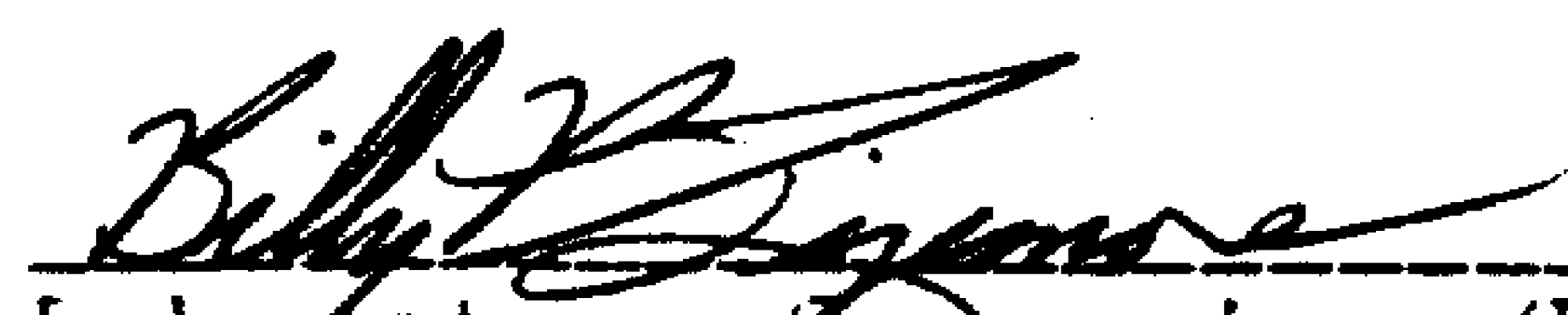
Trailer No.: T-694

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6 Nov. 90

Order No.: 831388-364

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>.13</u>
Bulk Density, gm/cc	8.410	<u>.511</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.7</u>
Pan		<u>1.1</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 11-6-90 Product 5415 Trailer Number T-694
Customer Arhol Silo 690 Time 0930
Technician MATE Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>13</u>		1. <u>6</u>		1. <u>25</u>	1. <u>.511</u>	1. <u>5.0</u>	L = <u>100.52</u>	<u>Flow</u> <u>7.5</u>	
			<u>26</u>		<u>10 mb</u>			A = <u>.04</u>		
	2.		2.		2.	2.	2.	B = <u>1.11</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis <u>10</u> Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb										
									Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200			
Gross Wt.										
Tare <u>T</u>										
Net Wt.	<u>0.00</u>	<u>1.88</u>	<u>25.8</u>	<u>11.29</u>	<u>6.53</u>	<u>2.23</u>	<u>1.87</u>	<u>.53</u>		
% on Mesh	<u>0.0</u>	<u>3.8</u>	<u>51.6</u>	<u>22.6</u>	<u>12.7</u>	<u>4.5</u>	<u>3.7</u>	<u>1.1</u>		
Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb										
									Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200			
Gross Wt.										
Tare										
Net Wt.										
% on Mesh										

Remarks _____

Star 207A Revised 1/12/87

A. Jones
Laboratory Supervisor/Lead

LETTER OF CERTIFICATION

Date: 10-28-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415
Trailer No.: T-694

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 10-28-90

Order No.: 831388-366

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>.04</u>
Bulk Density, gm/cc	8.410	<u>.504</u>
Brabender Dry Time, mins	8.450	<u>4.7</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.5</u>
Pan		<u>1.2</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

A. Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 10-28 Product 5415 Trailer Number T-694
 Customer ATHOL Silo 691 Time 06:30
 Technician A.J. Order No. 831388-366

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.64</u>		1. <u>2</u>		1. <u>1.18</u> <u>4 DL</u>	1. <u>1.509</u>	1. <u>4.7</u>	L = <u>100.63</u>		Flow <u>0</u>
	2.		2.		2.	2.	2.	A = <u>0.01</u>		<u>92</u>
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.93</u>	<u>22.27</u>	<u>13.09</u>	<u>7.86</u>	<u>2.69</u>	<u>2.24</u>	<u>0.62</u>	
% on Mesh	<u>0.00</u>	<u>3.9</u>	<u>44.5</u>	<u>26.2</u>	<u>14.3</u>	<u>5.4</u>	<u>4.5</u>	<u>1.2</u>	

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

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

Remarks _____

A

VAB.0001209599

LETTER OF CERTIFICATION

VISTA

Date: 10-16-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: F-2809

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 10-16-90

Order No.: 831388-362

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	8.410	<u>.519</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.2</u>
Pan		<u>1.2</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

David Thompson
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 10-15-80 Product 5415 Trailer Number T-2809
 Customer Atchafalaya Silo 690 Time 1930
 Technician MMJ Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>3/5</u>		1. <u>8/1 MG</u>	1. <u>.519</u>	1. <u>4.9</u>	L = <u>100.63</u> A = <u>.07</u>	<u>Flow</u> <u>7.8</u>	
	2.		2.		2.	2.	2.	B = <u>1.31</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>.30</u>	<u>21.15</u>	<u>15.35</u>	<u>8.55</u>	<u>2.36</u>	<u>1.61</u>	<u>.60</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>42.3</u>	<u>30.7</u>	<u>17.3</u>	<u>4.7</u>	<u>3.2</u>	<u>1.2</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.0001209601

LETTER OF CERTIFICATION

VISTA

Date: 10-13-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 7-722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 10-13-90

Order No.: 831388-361

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.07</u>
Bulk Density, gm/cc	8.410	<u>.515</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>2.1</u>
Pan		<u>0.7</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Artis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 10-13-90 Product 5415 Trailer Number T-722
 Customer Atchafalpa Silo 690-691 Time 1030
 Technician A.I. & R.H. Order No. 831388-361

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	FLEX BYEM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10.7</u>	.....	1. <u>3</u>	.....	1. <u>119</u>	1. <u>57.5</u>	1. <u>4.9</u>	L = <u>100.95</u>		<u>9</u> <u>8.2</u>
	2. ....	.....	2. ....	.....	2.	2.	2.	A = <u>0.04</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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tare	_____	_____	_____	_____	_____	_____	_____	_____	_____
Net Wt.	<u>0.00</u>	<u>0.20</u>	<u>21.29</u>	<u>16.09</u>	<u>8.54</u>	<u>2.68</u>	<u>1.06</u>	<u>0.34</u>	_____
% on Mesh	<u>0.0</u>	<u>A</u>	<u>42.6</u>	<u>32.2</u>	<u>16.6</u>	<u>5.4</u>	<u>2.1</u>	<u>.7</u>	_____

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: *25 Sept. 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

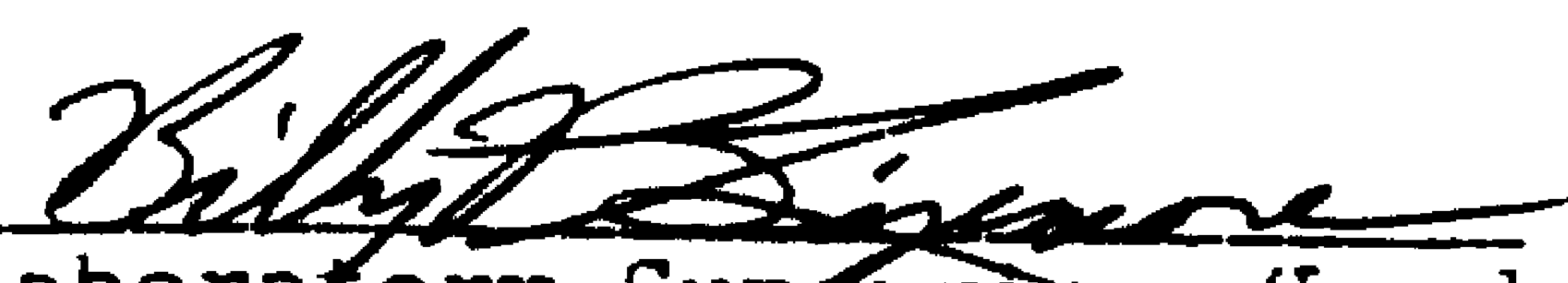
Trailer No.: *T-2810*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *25 Sept. 90*

Order No.: *831388-359*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>.09</u>
Bulk Density, gm/cc	8.410	<u>.498</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.0</u>
Pan		<u>0.9</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-25-90 Product 5415 Trailer Number T-2810
 Customer Athol Silo 690 Time 1330
 Technician TE MG Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>09</u>		1. <u>20</u>		1. <u>1 HA</u>	1. <u>1.498</u>	1. <u>5.0</u>	L = <u>100.32</u>		<u>Flow</u> <u>0/13.2</u>
	2.		2.		2.	2.	2.	A = <u>0.01</u>		
								B = <u>1.24</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.23</u>	<u>15.97</u>	<u>16.55</u>	<u>11.09</u>	<u>3.51</u>	<u>2.49</u>	<u>0.47</u>	
% on Mesh	<u>0.0</u>	<u>0.5</u>	<u>31.9</u>	<u>33.1</u>	<u>21.6</u>	<u>7.0</u>	<u>5.0</u>	<u>0.9</u>	

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

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

Remarks _____

VAB.0001209605

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

Date: 9-23-90

VISTA

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 9-23-90

Order No.: 831388-358

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.06</u>
Bulk Density, gm/cc	8.410	<u>.491</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.2</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-23-90 Product 5415 Trailer Number T-2810
 Customer ATHOL Silo 691 Time 09:30
 Technician GR RIT Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.06		1.2		1/2	1.	1.	L = 100.87		Flow
			4		2 GE	491	4.8	A = 0.02		0
	2.		2.		2.	2.	2.	B = 1.13		9.1
MIDDLE	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		
END	1.		1.		1.	1.	1.	L =		
								A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	0.00	0.47	18.34	15.95	10.49	2.62	2.11	0.64	
% on Mesh	0.00	.9	36.7	31.9	19.8	5.2	4.2	1.3	

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.0001209607

LETTER OF CERTIFICATION

Date: 9-19-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 7-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 9-19-90

Order No.: 831388-360

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.18</u>
Bulk Density, gm/cc	8.410	<u>1.506</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.3</u>
Pan		<u>1.2</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Arlene Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-19-90 Product 5415 Trailer Number F-2810
 Customer Atthol Silo 685,690,691 Time 16:40-17:15
 Technician P.J. J.S. Order No. 832788-360

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>18</u>		1. <u>15</u>		1. <u>12</u> <u>4.5</u>	1. <u>5.06</u>	1. <u>5.0</u>	L = <u>100.26</u> A = <u>0.07</u> B = <u>1.34</u>		<u>0</u> <u>8.8</u>
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		NO METAL
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>1.06</u>	<u>23.20</u>	<u>13.68</u>	<u>7.63</u>	<u>2.08</u>	<u>1.65</u>	<u>0.58</u>	
% on Mesh	<u>0.0</u>	<u>2.1</u>	<u>46.4</u>	<u>27.4</u>	<u>15.4</u>	<u>4.2</u>	<u>3.3</u>	<u>1.2</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 _____

LETTER OF CERTIFICATION

Date: 9-18-90

VISTA

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 545

Trailer No.: T575

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 9-18-90

Order No.: 831388-357

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>.09</u>
Bulk Density, gm/cc	8.410	<u>.498</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.2</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-18-90 Product 545 Trailer Number 7525
 Customer ATHOL Silo 685 Time 09:30-10:10
 Technician PT & JS Order No. 831388-357

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>09</u>		1. <u>8</u>		1. <u>5</u>	1. <u>498</u>	1. <u>5.0</u>	L = <u>100.27</u>		<u>0</u> <u>9.3</u>
	2.		2.		2. <u>GB</u>			A = <u>0.10</u>		
MIDDLE	1.		1.		1.			B = <u>1.17</u>		<u>NO</u> <u>METAL</u>
	2.		2.		2.			L =		
END	1.		1.		1.			A =		
	2.		2.		2.			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 <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.31</u>	<u>18.02</u>	<u>15.04</u>	<u>9.96</u>	<u>3.16</u>	<u>2.58</u>	<u>0.71</u>	
% on Mesh	<u>0.0</u>	<u>0.6</u>	<u>36.0</u>	<u>30.1</u>	<u>20.4</u>	<u>6.3</u>	<u>5.2</u>	<u>1.4</u>	

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

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

Remarks _____

VAB.0001209611

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

Date: 9-16-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5465

Trailer No.: T-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 9-16-90

Order No.: 831388-356

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.482</u>
Brabender Dry Time, mins	8.450	<u>5.1</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.8</u>
Pan		<u>0.9</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Artis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-14-90 Product 5415 Trailer Number 1-2810
Customer BUTNER ALTHOL Silo 685 Time 17:00
Technician A.J. Order No.

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. 12		1. 2		1. 2	1. 482	1. 5.1	L = 100.95		0 74
	2.		2. 4		2. 3 AS			A = 0.02		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	Pan							Glassy Part.
Mesh Size	40	60	80	100	120	140	200	
Gross Wt.								
Tare								
Net Wt.	0.00	0.29	17.82	16.08	10.47	2.68	1.88	0.44
% on Mesh	0.00	.6	35.6	32.2	21.5	5.4	3.8	.9

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

[illegible]

Remarks	

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: *11 Sept. 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-722*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *11 Sept. 90*

Order No.: *831388-355*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.18</u>
Bulk Density, gm/cc	8.410	<u>1.510</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.5</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-10-90 Product 5415 Trailer Number T-722
 Customer Atthol Silo 691 Time 0900
 Technician MG TE Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.8</u>	.....	1. <u>5</u>	.....	1. <u>13</u> 1 MG	1. <u>.510</u>	1. <u>4.9</u>	L = <u>100.60</u>		<u>Flow</u> <u>0</u> <u>84</u>
	2. ....	.....	2. ....	.....	2.	2.	2.	A = <u>0.08</u>		
MIDDLE	1. ....	.....	1. ....	.....	1.	1.	1.	L =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
END	1. ....	.....	1. ....	.....	1.	1.	1.	L =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.92</u>	<u>22.20</u>	<u>12.56</u>	<u>7.76</u>	<u>2.61</u>	<u>2.27</u>	<u>0.70</u>	
% on Mesh	<u>0.0</u>	<u>3.8</u>	<u>44.4</u>	<u>25.1</u>	<u>15.6</u>	<u>5.2</u>	<u>4.5</u>	<u>1.4</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

Date: 9-9-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 9-9-90

Order No.: 831388-354

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.17</u>
Bulk Density, gm/cc	8.410	<u>.516</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.0</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 9-8-90 Product 545 Trailer Number T-2810
 Customer Atkol Silo 690 Time 01:00-01:45
 Technician P.T. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.17</u>	.....	1. <u>3</u>	.....	1. <u>10/2</u>	1. <u>.576</u>	1. <u>5.0</u>	L = <u>10203</u>		<u>0</u> <u>7.6</u>
	2. ....	.....	2. <u>24</u>	.....	2. <u>R.P.</u>	2.	2.	A = <u>0.17</u>		
MIDDLE	1. ....	.....	1. ....	.....	1.	1.	1.	L =		<u>NO</u> <u>METAL</u>
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
END	1. ....	.....	1. ....	.....	1.	1.	1.	L =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.32</u>	<u>16.22</u>	<u>16.48</u>	<u>11.14</u>	<u>3.04</u>	<u>2.02</u>	<u>0.63</u>	
% on Mesh	<u>0.0</u>	<u>0.6</u>	<u>32.4</u>	<u>33.0</u>	<u>22.6</u>	<u>6.1</u>	<u>4.0</u>	<u>1.3</u>	

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

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

Remarks _____

VAB.0001209617

LETTER OF CERTIFICATION

VISTA

Date: 8-28-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2868

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 8-28-90

Order No.: 831388-353

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	8.410	<u>.509</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>2.2</u>
Pan		<u>1.0</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>0.995</u> to <u>1.044</u> .

Daniel C. Doft
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 8-28-90 Product 5415 Trailer Number T-2868
 Customer Alhol Silo 691 Time 1745
 Technician DCL + TE Order No. 831388-353

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.11</u>		1. <u>2/7</u>		1. <u>38/400</u>	1. <u>.509</u>	1. <u>4.9</u>	L = <u>100.95</u> A = <u>-0.05</u> B = <u>1.16</u>		<u>flow</u> <u>0.9</u>
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>2.42</u>	<u>26.59</u>	<u>10.83</u>	<u>6.86</u>	<u>2.01</u>	<u>1.08</u>	<u>0.5</u>	
% on Mesh	<u>0.0</u>	<u>4.8</u>	<u>53.2</u>	<u>21.7</u>	<u>13.1</u>	<u>4.0</u>	<u>2.2</u>	<u>1.0</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: 21 Aug. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 54/5

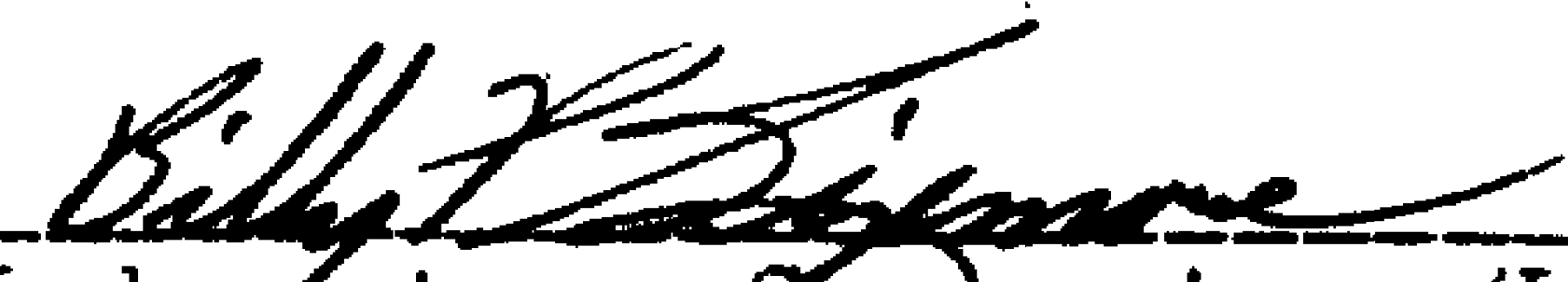
Trailer No.: T-694

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 21 Aug. 90

Order No.: 831388-352

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	____.13____
Bulk Density, gm/cc	8.410	____.496____
Brabender Dry Time, mins	8.450	____5.0____
Particle Size, % on	8.300	
40 Mesh		____0.0____
200 Mesh		____4.1____
Pan		____1.1____
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 8-20-90 Product 5415 Trailer Number T-694
 Customer Arhol Silo 691 Time 0130
 Technician MJ Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>13</u>		1. <u>3/5</u>		1. <u>12</u> <u>2HA</u>	1. <u>.496</u>	1. <u>5.0</u>	L = <u>100.91</u> A = <u>0.00</u> B = <u>+1.15</u>	<u>Flow</u> <u>0/7.7</u>	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>.06</u>	<u>17.60</u>	<u>15.88</u>	<u>10.25</u>	<u>2.55</u>	<u>2.05</u>	<u>.56</u>	
% on Mesh	<u>0.0</u>	<u>.1</u>	<u>35.2</u>	<u>31.8</u>	<u>22.6</u>	<u>5.1</u>	<u>4.1</u>	<u>1.1</u>	

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

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

Remarks _____

VAB.0001209621

LETTER OF CERTIFICATION

VISTA

Date: *15 Aug. 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

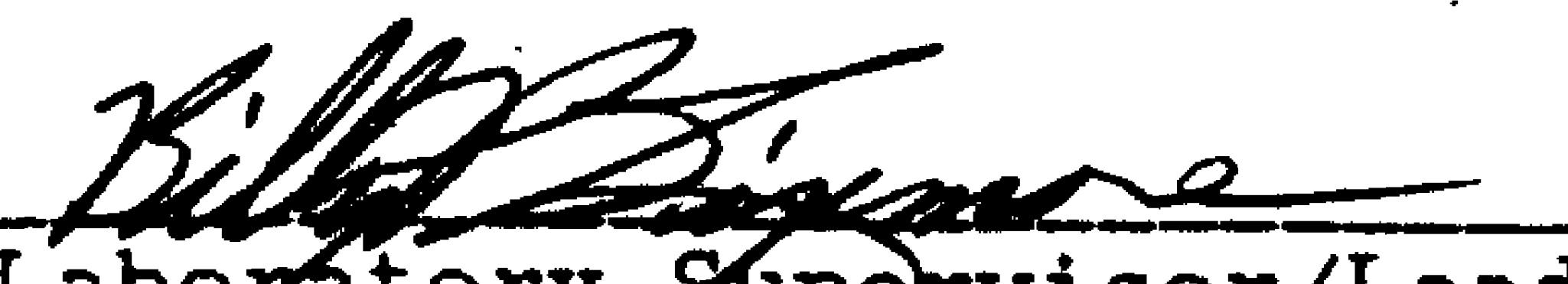
Trailer No.: *F-2479*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *15 Aug. 90*

Order No.: *831388-350*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.15</u>
Bulk Density, gm/cc	8.410	<u>.516</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.9</u>
Pan		<u>4.1</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

(A)

(A)

VAB.0001209622

PVC BULK TRAILER ANALYSIS

Date 8-18-90 Product 5415 Trailer Number T-2479
 Customer AT#01 Silo 690-691 Time 1230
 Technician AS + RH Order No. 831388-357

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.1</u>		1. <u>2.5</u>		1. <u>5/100</u>	<u>505</u>	1. <u>4.8</u>	L = <u>100.83</u>		<u>0/7.5</u>
	2.		2.		2.		2.	A = <u>0.00</u>		
MIDDLE	1.		1.		1.		1.	B = <u>1.15</u>		
	2.		2.		2.		2.	L =		
END	1.		1.		1.		1.	A =		
	2.		2.		2.		2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.22</u>	<u>20.26</u>	<u>16.02</u>	<u>9.22</u>	<u>2.32</u>	<u>1.47</u>	<u>0.59</u>	
% on Mesh	<u>0.00</u>	<u>0.4</u>	<u>40.5</u>	<u>32.0</u>	<u>18.4</u>	<u>4.6</u>	<u>2.9</u>	<u>1.2</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 _____

LETTER OF CERTIFICATION

VISTA

Date: 8-19-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2479

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 8-19-90

Order No.: 831388-351

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.11</u>
Bulk Density, gm/cc	8.410	<u>50.5</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>2.9</u>
Pan		<u>1.2</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Arlene Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 8-14-90 Product 5415 Trailer Number 7-2479
 Customer ATHOL Silo 091 Time _____
 Technician AJ + JPS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.15</u>		1. <u>1</u>		1. <u>4/15</u>	1. <u>.516</u>	1. <u>4.9</u>	L = <u>100.90</u>		<u>0/8.5</u>
	2.		2.		2.	2.	2.	A = <u>-0.02</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.45</u>	<u>18.27</u>	<u>14.92</u>	<u>10.76</u>	<u>3.08</u>	<u>1.94</u>	<u>0.54</u>	
% on Mesh	<u>0.0</u>	<u>0.9</u>	<u>36.5</u>	<u>29.8</u>	<u>21.6</u>	<u>6.2</u>	<u>3.9</u>	<u>1.1</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: *24 July 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

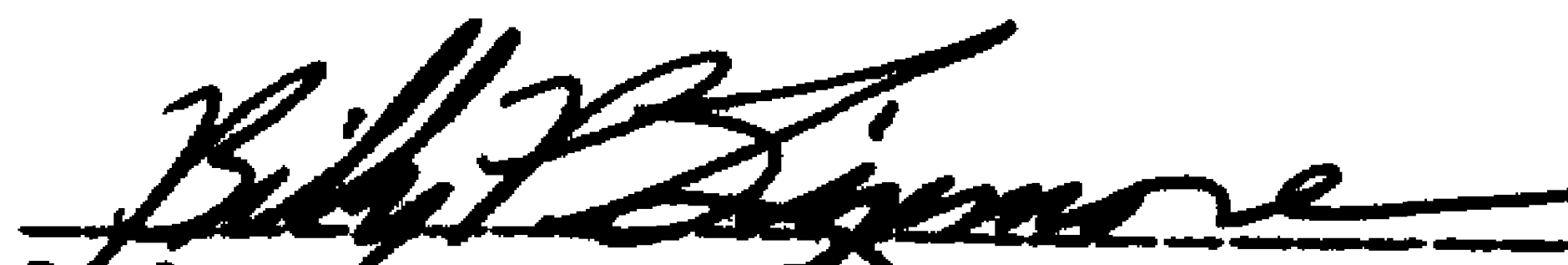
Trailer No.: *T-2810*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *24 July 90*

Order No.: *831388-347*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.14</u>
Bulk Density, gm/cc	8.410	<u>.497</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>2.0</u>
Pan		<u>4.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 7-24-90 Product 5415 Trailer Number T-2810
 Customer ATHOL Silo 690+91 Time 07:00-07:35
 Technician PT. + HPL Order No. 831388-347

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.14</u>		1. <u>1/4</u>		1. <u>25</u> <u>1</u>	1. <u>497</u>	1. <u>4.8</u>	L = <u>10/07</u> A = <u>0.00</u> B = <u>103</u>		<u>0</u> <u>8.1</u>
	2.		2.		2. <u>53</u>	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L = A = B =		<u>NO METAL</u>
	2.		2.		2.	2.	2.			
END	1.		1.		1.	1.	1.	L = A = B =		
	2.		2.		2.	2.	2.			

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>3.05</u>	<u>26.61</u>	<u>10.71</u>	<u>6.18</u>	<u>1.58</u>	<u>1.02</u>	<u>0.71</u>	
% on Mesh	<u>0.0</u>	<u>6.1</u>	<u>53.2</u>	<u>21.4</u>	<u>12.7</u>	<u>3.2</u>	<u>2.0</u>	<u>1.4</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 7-22-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 7-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 7-22-90

Order No.: 83/388-346

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.13</u>
Bulk Density, gm/cc	8.410	<u>1.498</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>9.00</u>
200 Mesh		<u>3.9</u>
Pan		<u>1.9</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.02</u> to <u>1.04</u> .

Arlis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 7-21-90 Product 5415 Trailer Number T-2810
 Customer Arhol Silo 691 Time 2230
 Technician MLH Order No. 831388-346

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.13</u>		1. <u>3/4</u>		1. <u>41/2 R</u>	1. <u>.498</u>	1. <u>5.0</u>	L = <u>10.11</u> A = <u>0.00</u> B = <u>1.10</u>	<u>Flow</u> <u>0.5</u>	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L = A = B =		
	2.		2.		2.	2.	2.			
END	1.		1.		1.	1.	1.	L = A = B =		
	2.		2.		2.	2.	2.			

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>.29</u>	<u>20.31</u>	<u>13.92</u>	<u>9.94</u>	<u>2.90</u>	<u>1.93</u>	<u>.94</u>	
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>40.6</u>	<u>27.8</u>	<u>19.4</u>	<u>5.8</u>	<u>3.9</u>	<u>1.9</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 18 July 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2479

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 18 July 90

Order No.: 831388-345

Property	Test Method	Analysis
Moisture, %	ABR-1A	1.10
Bulk Density, gm/cc	8.410	1.500
Brabender Dry Time, mins	8.450	4.9
Particle Size, % on	8.300	
40 Mesh		0.0
200 Mesh		4.9
Pan		1.2
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of 1.00 to 1.04


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 7-17-90 Product 5415 Trailer Number T-2479
 Customer Athal Silo 690 Time 0500
 Technician Paul Edwards Order No. 831388-345

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.10</u>		1. <u>2/15</u>		1. <u>7/15</u>	1. <u>.500</u>	1. <u>49</u>	L = <u>100.71</u>		
	2.		2.		2.	2.	2.	A = <u>-0.04</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.08</u>		<u>9.0</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.0</u>	<u>0.36</u>	<u>18.18</u>	<u>14.60</u>	<u>7.08</u>	<u>6.09</u>	<u>2.43</u>	<u>0.86</u>	
% on Mesh	<u>0.0</u>	<u>0.7</u>	<u>36.4</u>	<u>29.2</u>	<u>14.9</u>	<u>12.2</u>	<u>4.9</u>	<u>1.7</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 17 July 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-723

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 17 July 90

Order No.: 831388-344

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>14</u>
Bulk Density, gm/cc	8.410	<u>510</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.0</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Head

PVC BULK TRAILER ANALYSIS

Date 7-17-90 Product 5415 Trailer Number T-223
 Customer Athol Silo 691-850 Time 0715
 Technician BC Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.14</u>		1. <u>2/11</u>		1. <u>HA</u>	1. <u>.510</u>	1. <u>4.9</u>	L = <u>101.06</u>		<u>D/8.2</u>
	2.		2.		2.	2.	2.	A = <u>0.02</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.07</u>		
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.14</u>	<u>18.91</u>	<u>15.24</u>	<u>7.18</u>	<u>5.27</u>	<u>2.02</u>	<u>0.69</u>	
% on Mesh	<u>0.00</u>	<u>0.3</u>	<u>37.8</u>	<u>30.5</u>	<u>15.5</u>	<u>10.5</u>	<u>4.0</u>	<u>1.4</u> ✓	

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

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

Remarks _____

VAB.0001209633

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: *26 June 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-2479*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *26 June 90*

Order No.: *831388-343*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.15</u>
Bulk Density, gm/cc	8.410	<u>.507</u>
Brabender Dry Time, mins	8.450	<u>5.1</u>
Particle Size, % on	8.300	
40 Mesh		<u>2.0</u>
200 Mesh		<u>3.0</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-26-90 Product 5415 Trailer Number T-2479
 Customer Athol Silo 691 Time 0400
 Technician TE-MG Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.15</u>	.....	1. <u>3/5</u>	.....	1. <u>34/3</u>	1. <u>.507</u>	1. <u>5.1</u>	L = <u>100.71</u> A = <u>-0.03</u> B = <u>1.09</u>	<u>Flow</u> <u>8/7.9</u>	
	2. ....	.....	2. ....	.....	2. <u>1A</u>	2.	2.			
MIDDLE	1. ....	.....	1. ....	.....	1.	1.	1.	L = A = B =		
	2. ....	.....	2. ....	.....	2.	2.	2.			
END	1. ....	.....	1. ....	.....	1.	1.	1.	L = A = B =		
	2. ....	.....	2. ....	.....	2.	2.	2.			

Particle Size Distribution:

Screen Analysis	<u>10</u> Min		On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb							
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tare <u>T</u>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net Wt.	<u>0.00</u>	<u>.31</u>	<u>21.50</u>	<u>14.39</u>	<u>6.79</u>	<u>9.58</u>	<u>1.49</u>	<u>.63</u>		
% on Mesh	<u>0.0</u>	<u>.6</u>	<u>43.0</u>	<u>28.8</u>	<u>14.1</u>	<u>9.2</u>	<u>3.0</u>	<u>1.3</u>		
Screen Analysis	 Min.		On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb							
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tare	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net Wt.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
% on Mesh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Remarks _____

VAB.0001209635

LETTER OF CERTIFICATION

VISTA

Date: 20 June 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 54/5

Trailer No.: T-694

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 20 June 90

Order No.: 831388-341

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	8.410	<u>.506</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.0</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.950	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-20-90 Product 5415 Trailer Number T-694
 Customer Arhol Silo 690 Time 0930
 Technician MMS & TE Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.1</u>	.....	1. <u>3/5</u>	.....	1. <u>15</u> <u>24H</u>	1. <u>.506</u>	1. <u>5.0</u>	L = <u>100.61</u> A = <u>.03</u> B = <u>1.15</u>	<u>Flow</u> <u>8.5</u>	
	2. ....	.....	2. ....	.....	2.	2.	2.			
MIDDLE	1. ....	.....	1. ....	.....	1.	1.	1.	L = A = B =		
	2. ....	.....	2. ....	.....	2.	2.	2.			
END	1. ....	.....	1. ....	.....	1.	1.	1.	L = A = B =		
	2. ....	.....	2. ....	.....	2.	2.	2.			

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tare <u>T</u>	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net Wt.	<u>0.00</u>	<u>.62</u>	<u>25.41</u>	<u>9.56</u>	<u>6.14</u>	<u>5.10</u>	<u>2.50</u>	<u>.68</u>	.....
% on Mesh	<u>0.0</u>	<u>1.2</u>	<u>50.8</u>	<u>19.1</u>	<u>12.3</u>	<u>10.2</u>	<u>5.0</u>	<u>1.4</u>	.....

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: *19 June 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-2351*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *19 June 90*

Order No.: *831388-340*

Property	Test Method	Analysis
Moisture, %	AER-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.509</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.2</u>
Pan		<u>6.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-19-90 Product S415 Trailer Number T-2351
 Customer Athol Silo 690, 91 Time 1710
 Technician MG Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>2</u>		1. <u>25</u>	1. <u>.509</u>	1. <u>5.0</u>	L = <u>100.83</u>	<u>Flow</u> <u>8.0</u>	
					2. <u>4</u>			A = <u>.02</u>		
	2.		2.		2.		2.	B = <u>1.09</u>		
MIDDLE	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
								B =		
END	1.		1.		1.		1.	L =		
	2.		2.		2.		2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>.22</u>	<u>20.68</u>	<u>12.39</u>	<u>7.59</u>	<u>5.12</u>	<u>3.10</u>	<u>.75</u>	
% on Mesh	<u>0.0</u>	<u>.4</u>	<u>41.4</u>	<u>24.8</u>	<u>15.5</u>	<u>10.2</u>	<u>6.2</u>	<u>1.5</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

Date: 6-13-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 7575

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6-13-90

Order No.: 831388-338

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.515</u>
Brabender Dry Time, mins	8.450	<u>4.5</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>6.4</u>
Pan		<u>2.0</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-12-90 Product 5415 Trailer Number T-575
 Customer Alhol Silo 690-691 Time 0015
 Technician A.J. & R.H. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.2</u>		1. <u>1.1</u>		1. <u>4</u>	1. <u>1.515</u>	1. <u>4.5</u>	L = <u>100-67</u>		<u>9</u> <u>8.3</u>
	2.		2.		2.	2.	2.	A = <u>0.00</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.28</u>	<u>15.99</u>	<u>15.21</u>	<u>7.87</u>	<u>6.27</u>	<u>3.19</u>	<u>0.99</u>	
% on Mesh	<u>0.00</u>	<u>6</u>	<u>32.0</u>	<u>38.4</u>	<u>16.1</u>	<u>12.5</u>	<u>6.4</u>	<u>2.0</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

Date: 6-12-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T 722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6-12-90

Order No.: 831388-337

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Bulk Density, gm/cc	8.410	<u>.514</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.4</u>
Pan		<u>2.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-11-90 Product 5415 Trailer Number T-722
 Customer Arhol Silo 690 Time 20:00
 Technician TE Order No. 83B88-337

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>05</u>		1. <u>1</u>		1. <u>9</u>	1. <u>.514</u>	1. <u>4.9</u>	L = <u>100.78</u>		<u>Flow</u> <u>9/a.6</u>
	2. <u>pe</u>		2. <u>8</u>		2. <u>pe</u>			A = <u>0.03</u>		
								B = <u>1.06</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.79</u>	<u>22.69</u>	<u>12.90</u>	<u>4.84</u>	<u>5.40</u>	<u>2.20</u>	<u>1.21</u>	
% on Mesh	<u>0.0</u>	<u>1.6</u>	<u>45.4</u>	<u>25.8</u>	<u>9.6</u>	<u>10.8</u>	<u>4.4</u>	<u>2.4</u>	

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

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

Remarks _____

VAB.0001209643

LETTER OF CERTIFICATION

Date: 6-9-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2868

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6-9-90

Order No.: 831388-336

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	8.410	<u>.496</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.8</u>
Pan		<u>1.8</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Artis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-9-90 Product 5415 Trailer Number T2868
 Customer ATH 04 Silo 690-691 Time 1815
 Technician AJ Order No. 831388-336

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RYEM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>1.10</u>		1. <u>1</u>		1. <u>23</u> <u>2 dcl</u>	1. <u>496</u>	1. <u>5.0</u>	L = <u>100.90</u> A = <u>0.04</u>		<u>flow</u> <u>0</u> <u>9.6</u>
	2.		2.		2.	2.	2.	B = <u>1.11</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.28</u>	<u>18.15</u>	<u>14.77</u>	<u>7.14</u>	<u>5.78</u>	<u>2.69</u>	<u>0.89</u>	
% on Mesh	<u>0.00</u>	<u>.6</u>	<u>36.3</u>	<u>29.5</u>	<u>15.4</u>	<u>11.6</u>	<u>4.8</u>	<u>1.8</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

Date: 6-6-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 72809

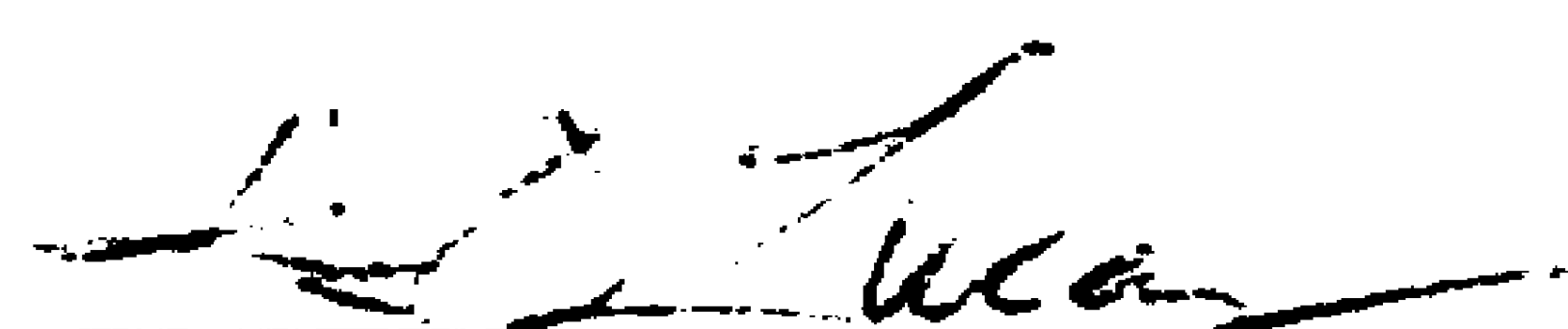
Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6-6-90

Order No.: 831388-335

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.518</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.2</u>
Pan		<u>2.2</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.60</u> to <u>1.07</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

T-2809

Date 6-5-90 Product 5415 Trailer Number ~~F-2480~~
 Customer ATHOL Silo 690 Time 05:00-05:35
 Technician Foto + P.L. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.12</u>		1. <u>5</u>		1. <u>17</u>	1. <u>.518</u>	1. <u>5.0</u>	L = <u>10.97</u>		<u>0</u> <u>8.7</u>
	2.		2. <u>11</u>		2. <u>4.6</u>			A = <u>0.06</u>		
MIDDLE	1.		1.		1.			B = <u>0.94</u>		<u>NO</u> <u>METAL</u>
	2.		2.		2.			A =		
END	1.		1.		1.			B =		
	2.		2.		2.			A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>1.53</u>	<u>22.68</u>	<u>11.51</u>	<u>5.75</u>	<u>4.58</u>	<u>2.62</u>	<u>1.12</u>	
% on Mesh	<u>0.0</u>	<u>3.1</u>	<u>45.4</u>	<u>23.0</u>	<u>11.9</u>	<u>9.2</u>	<u>5.2</u>	<u>2.2</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

Date: 6-5-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 72480

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6-5-90

Order No.: 831388-334

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.07</u>
Bulk Density, gm/cc	8.410	<u>.521</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.6</u>
Pan		<u>3.0</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-4-90 Product 545 Trailer Number 72480
 Customer ATKOL Silo 690 Time 22:00-22:30
 Technician P.T. & P.L. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>07</u>		1. <u>4</u>		1. <u>43</u>	1. <u>.521</u>	1. <u>4.8</u>	L = <u>100.67</u>		<u>0</u> <u>11.1</u>
	2. <u>DL</u>		2. <u>DL</u>		2. <u>DL</u>		2. <u>DL</u>	A = <u>0.02</u>		
MIDDLE	1. <u>DL</u>		1. <u>DL</u>		1. <u>DL</u>		1. <u>DL</u>	L = <u>DL</u>		<u>No</u> <u>metal</u>
	2. <u>DL</u>		2. <u>DL</u>		2. <u>DL</u>		2. <u>DL</u>	A = <u>DL</u>		
END	1. <u>DL</u>		1. <u>DL</u>		1. <u>DL</u>		1. <u>DL</u>	L = <u>DL</u>		
	2. <u>DL</u>		2. <u>DL</u>		2. <u>DL</u>		2. <u>DL</u>	A = <u>DL</u>		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>3.76</u>	<u>24.68</u>	<u>9.4</u>	<u>4.51</u>	<u>4.21</u>	<u>2.32</u>	<u>1.48</u>	
% on Mesh	<u>0.0</u>	<u>7.5</u>	<u>49.4</u>	<u>18.8</u>	<u>8.3</u>	<u>8.4</u>	<u>4.6</u>	<u>3.0</u>	

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.									
% on Mesh	<u>0</u>	<u>25.13</u>	<u>105.72</u>	<u>30.64</u>	<u>11.37</u>	<u>9.66</u>	<u>4.14</u>	<u>1.11</u>	<u>= 187.77</u>

Remarks _____

LETTER OF CERTIFICATION

Date: 6-3-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 7-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 6-3-90

Order No.: 831388-333

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.05</u>
Bulk Density, gm/cc	8.410	<u>1.535</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>5.9</u>
Pan		<u>2.1</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Arlene Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 6-3-50 Product 5415 Trailer Number 7-2810
 Customer athol Silo 690/691 Time 1015
 Technician A.J. & R.H. Order No. 831388-333

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.05</u>		1. <u>2</u>		1. <u>11</u> <u>2GE</u>	1. <u>.535</u>	1. <u>4.9</u>	L = <u>100.77</u>		<u>flow</u> <u>0</u> <u>9.9</u>
	2.		2.		2.	2.	2.	A = <u>0.08</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tare	_____	_____	_____	_____	_____	_____	_____	_____	_____
Net Wt.	<u>0.00</u>	<u>0.63</u>	<u>18.40</u>	<u>13.77</u>	<u>7.67</u>	<u>5.05</u>	<u>2.95</u>	<u>1.07</u>	_____
% on Mesh	<u>0.00</u>	<u>1.3</u>	<u>36.8</u>	<u>27.5</u>	<u>16.3</u>	<u>10.1</u>	<u>5.9</u>	<u>2.1</u>	_____

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

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

Remarks _____

LETTER OF CERTIFICATION

Date: 5-16-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 72868

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 5-16-90

Order No.: 83/388-332

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.510</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.2</u>
Pan		<u>2.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 5-15-90 Product 5415 Trailer Number 72868
 Customer A/Thol Silo 690, 691 Time _____
 Technician AJ Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>12</u>		1. <u>2</u>		1. <u>50</u>	1. <u>510</u>	1. <u>4.8</u>	L = <u>10.14</u>		<u>Flow</u> <u>0</u> <u>7.3</u>
	2.		2.		2.	2.	2.	A = <u>0.03</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.44</u>	<u>17.94</u>	<u>12.79</u>	<u>8.73</u>	<u>6.14</u>	<u>2.64</u>	<u>1.23</u>	
% on Mesh	<u>0.00</u>	<u>9</u>	<u>35.9</u>	<u>25.6</u>	<u>17.6</u>	<u>12.3</u>	<u>5.2</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.0001209653

LETTER OF CERTIFICATION

VISTA

Date: 5-15-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T2480

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 5-15-90

Order No.: 831388-331

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.18</u>
Bulk Density, gm/cc	8.410	<u>.521</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.8</u>
Pan		<u>1.8</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 5-15-90 Product 5415 Trailer Number T-2480
 Customer Ashol Silo 690 Time 0630
 Technician MEJ Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.18</u>	.....	1. <u>2/4</u>	.....	1. <u>150</u> <u>5 HA</u>	1. <u>.521</u>	1. <u>4.9</u>	L = <u>100.67</u> A = <u>+.04</u>	<u>Flow</u> <u>0.9</u>	
	2. ....	.....	2. ....	.....	2.	2.	2.	B = <u>+1.00</u>		
MIDDLE	1. ....	.....	1. ....	.....	1.	1.	1.	L =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
END	1. ....	.....	1. ....	.....	1.	1.	1.	B =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
	1. ....	.....	1. ....	.....	1.	1.	1.	L =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
	1. ....	.....	1. ....	.....	1.	1.	1.	B =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tare <u>T</u>	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net Wt.	<u>0.00</u>	<u>.59</u>	<u>19.87</u>	<u>12.62</u>	<u>8.75</u>	<u>4.85</u>	<u>2.40</u>	<u>.89</u>	.....
% on Mesh	<u>0.0</u>	<u>1.2</u>	<u>39.7</u>	<u>25.2</u>	<u>17.6</u>	<u>9.7</u>	<u>4.8</u>	<u>1.8</u>	.....

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 5-12-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 5-12-90

Order No.: 831388-330

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.0</u>
Bulk Density, gm/cc	8.410	<u>1.511</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>2.9</u>
Pan		<u>1.6</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Arlis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 5-12-90 Product 5415 Trailer Number T-722
 Customer Althol Silo 691 Time 1830
 Technician AJ-JRH Order No. 831388-330

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>1</u>		1. <u>50</u> <u>4.104</u>	1. <u>511</u>	1. <u>4.8</u>	L = <u>101.07</u> A = <u>0.05</u>		<u>flow</u> <u>0</u> <u>7.9</u>
	2.		2.		2.	2.	2.	B = <u>0.84</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>1.24</u>	<u>23.81</u>	<u>12.50</u>	<u>4.33</u>	<u>3.75</u>	<u>1.46</u>	<u>0.82</u>	
% on Mesh	<u>0.60</u>	<u>2.5</u>	<u>47.6</u>	<u>25.0</u>	<u>12.9</u>	<u>7.5</u>	<u>2.9</u>	<u>1.6</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 9 MAY 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 9 MAY 90

Order No.: 831388-329

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.16</u>
Bulk Density, gm/cc	8.410	<u>.519</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.0</u>
Pan		<u>1.8</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 5-9-90 Product 5415 Trailer Number T-722
 Customer Alhol Silo 690 Time 0930
 Technician AI & T.E. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.16</u>		1. <u>3/5</u>		1. <u>50/3</u>	1. <u>.519</u>	1. <u>4.8</u>	L = <u>101.09</u>		
	2.		2.		2. <u>15</u>	2.	2.	A = <u>6.09</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.03</u>		
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Flow
9.5

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.25</u>	<u>17.30</u>	<u>15.45</u>	<u>9.11</u>	<u>4.95</u>	<u>1.99</u>	<u>0.90</u>	
% on Mesh	<u>0.0</u>	<u>0.5</u>	<u>34.6</u>	<u>30.9</u>	<u>18.3</u>	<u>9.9</u>	<u>4.0</u>	<u>1.8</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VIST

Date: 5-6-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-575

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 5-6-90

Order No.: 831388-327

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.497</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>2.7</u>
Pan		<u>1.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 5-6-90 Product 5415 Trailer Number T575
 Customer ATHOH Silo 691 Time 0500
 Technician ADL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
NO MTL										
FRONT	1. <u>12</u>		1. <u>3/3</u>		1. <u>4/1RP</u>	1. <u>497</u>	1. <u>4.8</u>	L = <u>101.01</u>		
	2.		2.		2.	2.	2.	A = <u>0.02</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>0.88</u>		
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.72</u>	<u>23.52</u>	<u>14.05</u>	<u>6.51</u>	<u>3.15</u>	<u>1.35</u>	<u>0.75</u>	
% on Mesh	<u>0.0</u>	<u>1.4</u>	<u>47.0</u>	<u>28.1</u>	<u>13.0</u>	<u>6.3</u>	<u>2.7</u>	<u>1.5</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 _____

LETTER OF CERTIFICATION

VISTA

Date: *8 May 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-2481*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *8 May 90*

Order No.: *831388-328*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	8.410	<u>.494</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>1.8</u>
Pan		<u>1.2</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 5-7-90 Product 5415 Trailer Number T2481
 Customer ATHOL Silo 691 Time 2100
 Technician KDX/JS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
NO MTL										
FRONT	1. <u>11</u>		1. <u>1/6</u>		1. <u>5/16 P</u>	1. <u>494</u>	1. <u>5.0</u>	L = <u>100.78</u>		
	2.		2.		2.	2.	2.	A = <u>0.05</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.03</u>		<u>0/9.5</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.20</u>	<u>20.90</u>	<u>16.55</u>	<u>7.48</u>	<u>3.20</u>	<u>0.90</u>	<u>0.61</u>	
% on Mesh	<u>0.0</u>	<u>0.4</u>	<u>41.8</u>	<u>33.1</u>	<u>15.3</u>	<u>6.4</u>	<u>1.8</u>	<u>1.2</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 4-18-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: F2480

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 4-18-90

Order No.: 851388-326

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.18</u>
Bulk Density, gm/cc	8.410	<u>.498</u>
Brabender Dry Time, mins	8.450	<u>4.7</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.4</u>
Pan		<u>1.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

David Thompson
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 4-18-90 Product 5415 Trailer Number T-2480
 Customer Atko Silo 691 Time 10:55-11:30
 Technician P.T. + HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>18</u>		1. <u>1</u>		1. <u>14</u>	1. <u>.498</u>	1. <u>4.7</u>	L = <u>100.90</u>		<u>0</u> <u>9.4</u>
	2.		2. <u>8</u>		2. <u>HPL</u>	2.	2.	A = <u>0.05</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>NO</u> <u>metal</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.88</u>	<u>20.36</u>	<u>13.46</u>	<u>8.76</u>	<u>3.93</u>	<u>1.72</u>	<u>0.76</u>	
% on Mesh	<u>0.0</u>	<u>1.8</u>	<u>40.7</u>	<u>26.9</u>	<u>17.8</u>	<u>7.9</u>	<u>3.4</u>	<u>1.5</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 _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: 4-17-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2479

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 4-17-90

Order No.: 831388-325

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	8.410	<u>.506</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.4</u>
Pan		<u>1.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

David Thompson
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 4-17-90 Product 5415 Trailer Number T-2429
 Customer ATHOL Silo 691 Time 10:45-11:45
 Technician J.T. HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>3</u>		1. <u>19</u>	1. <u>.506</u>	1. <u>4.8</u>	L = <u>101.00</u>		<u>0</u> <u>9.4</u>
	2.		2.		2. <u>HPL</u>			A = <u>0.05</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>no metal</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.58</u>	<u>20.62</u>	<u>14.12</u>	<u>8.21</u>	<u>3.90</u>	<u>1.68</u>	<u>0.75</u>	
% on Mesh	<u>0.0</u>	<u>1.2</u>	<u>41.2</u>	<u>28.2</u>	<u>16.7</u>	<u>7.8</u>	<u>3.4</u>	<u>1.5</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 4-14-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2479

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 4-14-90

Order No.: 831388-324

Property	Test Method	Analysis
Moisture, %	AER-1A	<u>1.06</u>
Bulk Density, gm/cc	8.410	<u>531</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.0</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>.925</u> to <u>1.044</u> .

Artis Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 4-14-90 Product 5415 Trailer Number 7-2479
Customer athol Silo 690-691 Time _____
Technician A.S. & R.H. Order No. 831388-324

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.06</u>		1. <u>3/7</u>		1. <u>34/300</u>	1. <u>.531</u>	1. <u>4.9</u>	L = <u>100.83</u>		<u>Flow</u> <u>0/8.0</u>
	2.		2.		2.	2.	2.	A = <u>0.03</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>0.79</u>		
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

Screen Analysis _____ Min On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb										
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										
Tare										
Net Wt.	<u>0.00</u>	<u>0.35</u>	<u>21.27</u>	<u>14.81</u>	<u>7.80</u>	<u>3.49</u>	<u>1.49</u>	<u>0.69</u>		
% on Mesh	<u>0.00</u>	<u>0.7</u>	<u>42.5</u>	<u>29.6</u>	<u>15.8</u>	<u>7.0</u>	<u>3.0</u>	<u>1.4</u>		
Screen Analysis _____ Min. On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb										
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										
Tare										
Net Wt.										
% on Mesh										

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 4-11-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T 723

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 4-11-90

Order No.: 831388-323

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.06</u>
Bulk Density, gm/cc	8.410	<u>.502</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.0</u>
Pan		<u>1.6</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK-TRAILER ANALYSIS

Date 4-11-90 Product 5415 Trailer Number T723
 Customer Adhok Silo 690-691 Time 1030
 Technician A.J. + T.E. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM <i>low</i>
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.6</u>		1. <u>2/5</u>		1. <u>9/4</u>	1. <u>.502</u>	1. <u>4.8</u>	L = <u>100.54</u>		<u>9/9.3</u>
	2.		2.		2. <u>RW</u> <u>NA</u>	2.	2.	A = <u>-0.02</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.08</u>	<u>14.00</u>	<u>16.60</u>	<u>10.94</u>	<u>5.29</u>	<u>2.49</u>	<u>0.80</u>	
% on Mesh	<u>0.10</u>	<u>0.2</u>	<u>98.0</u>	<u>33.2</u>	<u>21.4</u>	<u>10.6</u>	<u>5.0</u>	<u>1.6</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: *10 Apr. 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *54/5*

Trailer No.: *T-2351*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *10 Apr. 90*

Order No.: *83/388-322*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.12</u>
Bulk Density, gm/cc	8.410	<u>.498</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.1</u>
Pan		<u>1.6</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 4-10-90 Product 545 Trailer Number T-2351
Customer Atkol Silo 690+91 Time 06:00-06:40
Technician P.T. + HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.12</u>		1. <u>3</u>		1. <u>10</u>	1. <u>498</u>	1. <u>4.8</u>	L = <u>100.59</u>		<u>0</u> <u>9.5</u>
	2.		2. <u>3</u>		2. <u>PP</u>	2.	2.	A = <u>0.03</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>No metal</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis	Min	On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb						Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.28</u>	<u>17.08</u>	<u>157.3</u>	<u>9.06</u>	<u>3.60</u>	<u>1.53</u>	<u>0.82</u>	
% on Mesh	<u>0.0</u>	<u>0.6</u>	<u>38.2</u>	<u>31.5</u>	<u>17.8</u>	<u>7.2</u>	<u>3.1</u>	<u>1.6</u>	

Screen Analysis	Min	On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb						Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 27 March 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2479

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 27 March 90

Order No.: 831388-321

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.14</u>
Bulk Density, gm/cc	8.410	<u>.504</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.3</u>
Pan		<u>1.7</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Day
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-27-90 Product 5415 Trailer Number T-2479
 Customer Arkol Silo 691 Time 1030
 Technician MH Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>14</u>		1. <u>1</u>		1. <u>5</u>	1. <u>,504</u>	1. <u>5.0</u>	L = <u>100.82</u>	<u>Flow</u> <u>2.9</u>	
	2.		2. <u>2</u>		2. <u>2 HA</u>			A = <u>0.0</u>		
	.....		.....					B = <u>1.0</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
	.....		.....					B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
	.....		.....					B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.47</u>	<u>18.32</u>	<u>14.55</u>	<u>9.58</u>	<u>4.25</u>	<u>2.14</u>	<u>0.85</u>	
% on Mesh	<u>0.0</u>	<u>0.9</u>	<u>36.6</u>	<u>29.1</u>	<u>18.9</u>	<u>8.5</u>	<u>4.3</u>	<u>1.7</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 3-25-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 3-25-90

Order No.: 831388-320

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.06</u>
Bulk Density, gm/cc	8.410	<u>.506</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.2</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-25-90 Product 5415 Trailer Number T- 722
 Customer ATHOL Silo 690491 Time 0915
 Technician COTES Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.06</u>		1. <u>2</u>		1. <u>18/36</u>	1. <u>.506</u>	1. <u>4.9</u>	L = <u>100.87</u>		<u>Flow</u> <u>90.4</u>
	2.		2.		2.	2.	2.	A = <u>0.07</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>.41</u>	<u>22.67</u>	<u>13.85</u>	<u>7.45</u>	<u>3.41</u>	<u>1.58</u>	<u>.65</u>	
% on Mesh	<u>0.0</u>	<u>.8</u>	<u>45.3</u>	<u>27.7</u>	<u>14.9</u>	<u>6.8</u>	<u>3.2</u>	<u>1.3</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: *21 March 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-723*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *21 March 90*

Order No.: *83/388-319*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>1.15</u>
Bulk Density, gm/cc	8.410	<u>506</u>
Brabender Dry Time, mins	8.450	<u>4.7</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>2.8</u>
Pan		<u>1.6</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-21-90 Product 5415 Trailer Number F723
Customer ATHOL Silo 690 Time 09:35-11:00
Technician Deto + HDL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>15</u>		1. <u>2</u>		1. <u>10</u>	1. <u>.506</u>	1. <u>4.7</u>	L = <u>101.07</u>		<u>0</u> <u>9.3</u>
	2.		2.		2.	2.	2.	A = <u>0.05</u>		
								B = <u>0.87</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>NO</u> <u>metal</u>
	2.		2.		2.	2.	2.	A =		
								B =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

Screen Analysis	Min		On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb								
									Pan	Glassy Part.	
Mesh Size	40	60	80	100	120	140	200				
Gross Wt.											
Tare <u>T</u>											
Net Wt.	<u>0.00</u>	<u>0.20</u>	<u>18.07</u>	<u>15.65</u>	<u>8.91</u>	<u>4.60</u>	<u>1.40</u>	<u>0.82</u>			
% on Mesh	<u>0.0</u>	<u>0.4</u>	<u>36.1</u>	<u>31.3</u>	<u>18.6</u>	<u>9.2</u>	<u>2.8</u>	<u>1.6</u>			

Screen Analysis	Min.		On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb								
									Pan	Glassy Part.	
Mesh Size	40	60	80	100	120	140	200				
Gross Wt.											
Tare											
Net Wt.											
% on Mesh											

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: *18 March 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-2351*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *19 March 90*

Order No.: *831388-318*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	8.410	<u>.506</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.0</u>
Pan		<u>1.7</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-18-90 Product 5415 Trailer Number T-2351
 Customer Ashe Silo 690 Time 2330
 Technician ML Order No. 831388-318

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.10</u>		1. <u>2/5</u>		1. <u>14/2mg</u>	1. <u>.506</u>	1. <u>5.0</u>	L = <u>100.88</u> A = <u>+.07</u> B = <u>+.87</u>	<u>Flow</u> <u>8.7</u>	
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

Screen Analysis	<u>10</u>	Min	On Rotap shaker. 49 gms. Resin plus 1.0 gms. Carb					Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>.48</u>	<u>22.10</u>	<u>13.71</u>	<u>7.65</u>	<u>3.61</u>	<u>1.52</u>	<u>.83</u>	
% on Mesh	<u>0.0</u>	<u>1.0</u>	<u>44.2</u>	<u>27.4</u>	<u>15.5</u>	<u>7.2</u>	<u>3.0</u>	<u>1.7</u>	
Screen Analysis		Min.	On Rotap shaker 49 gms. Resin plus 1.0 gms. Carb					Pan	Glassy Part.
Mesh Size	40	60	80	100	120	140	200		
Gross Wt.									
Tare									
Net Wt.									
% on Mesh									

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 3-18-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 7-2809

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 3.18.90

Order No.: 831388-317

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>.05</u>
Bulk Density, gm/cc	8.410	<u>1.493</u>
Brabender Dry Time, mins	8.450	<u>4.7</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.9</u>
Pan		<u>1.7</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.90</u> to <u>1.94</u> .

Arthur Jones
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-17-90 Product 5415 Trailer Number T-2809
 Customer ATI Hol Silo 690 Time 12130 1000
 Technician AJ. & RH Order No. 831388-317

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.5</u>		1. <u>1</u>		1. <u>16/2</u>	1. <u>493</u>	1. <u>4.7</u>	L = <u>101.18</u>		<u>Flow</u> <u>0</u> <u>10.0</u>
	2.		2. <u>3</u>		2.	2.	2.	A = <u>0.21</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt. <u>T</u>	<u>0.00</u>	<u>0.14</u>	<u>18.65</u>	<u>15.32</u>	<u>9.80</u>	<u>4.02</u>	<u>1.93</u>	<u>0.84</u>	
% on Mesh	<u>0.00</u>	<u>.3</u>	<u>37.3</u>	<u>30.6</u>	<u>18.2</u>	<u>8.0</u>	<u>3.9</u>	<u>1.7</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 13 March 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: F722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 12 March 90

Order No.: 831388-316

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.17</u>
Bulk Density, gm/cc	8.410	<u>.506</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.0</u>
Pan		<u>1.6</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-13-90 Product 545 Trailer Number T-722
 Customer Atko Silo 690+91 Time 04:50-07:15
 Technician P.A. HDL Order No. 831388-316

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.17</u>		1. <u>2</u>		1. <u>8</u>	1. <u>.506</u>	1. <u>5.0</u>	L = <u>10.10</u>		<u>0</u> <u>8.7</u>
	2.		2. <u>5</u>		2. <u>HDL</u>		2.	A = <u>0.11</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>NO METAL</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tare <u>T</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____
Net Wt.	<u>0.00</u>	<u>0.23</u>	<u>17.38</u>	<u>15.34</u>	<u>9.87</u>	<u>4.18</u>	<u>2.02</u>	<u>0.78</u>	_____
% on Mesh	<u>0.0</u>	<u>0.5</u>	<u>34.8</u>	<u>30.7</u>	<u>20.0</u>	<u>8.4</u>	<u>4.0</u>	<u>1.6</u>	_____

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 3-10-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: F-2480

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 3-10-90

Order No.: 831388-315

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.05</u>
Bulk Density, gm/cc	8.410	<u>.506</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>3.3</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

David Thompson
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 3-10-90 Product 5445 Trailer Number F2480
 Customer Atthol Silo 690 + 91 Time 23:00 - 23:30
 Technician P.T. + HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>0.5</u>		1. <u>3</u>		1. <u>5</u>	1. <u>.506</u>	1. <u>4.8</u>	L = <u>101.14</u>		<u>0</u> <u>11.8</u>
	2.		2. <u>2</u>		2. <u>R.P.</u>	2.	2.	A = <u>0.10</u>		
MIDDLE	1.		1.		1.	1.	1.	L =		<u>No metal</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.63</u>	<u>20.24</u>	<u>14.41</u>	<u>8.58</u>	<u>3.54</u>	<u>1.66</u>	<u>0.71</u>	
% on Mesh	<u>0.0</u>	<u>1.3</u>	<u>40.5</u>	<u>28.8</u>	<u>17.6</u>	<u>7.1</u>	<u>3.3</u>	<u>1.4</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 27 Feb. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 27 Feb. 90

Order No.: 831388-314

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.07</u>
Bulk Density, gm/cc	8.410	<u>.480</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.9</u>
Pan		<u>1.6</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

James M. Gray
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 2-26-90 Product 5415 Trailer Number T-2810
 Customer ATHOL Silo 1090 Time 02:00-03:15
 Technician P.T. & HPL Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>07</u>		1. <u>2/3</u>		1. <u>4 1/2</u> <u>L.P.</u>	1. <u>H. 312</u> <u>480</u>	1. <u>4.9</u>	L = <u>19.33</u> A = <u>0.03</u> B = <u>0.77</u>		<u>0</u> <u>244</u>
	2. <u>496</u>		2. <u>45-13</u>		2. <u>496</u>					
MIDDLE	1.		1.		1.	1.	1.	L =		<u>0</u> <u>metall</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		<u>res x.</u> <u>0</u>
	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 <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.12</u>	<u>15.80</u>	<u>16.91</u>	<u>9.72</u>	<u>4.23</u>	<u>2.45</u>	<u>0.82</u>	
% on Mesh	<u>0.0</u>	<u>0.2</u>	<u>31.6</u>	<u>33.8</u>	<u>19.4</u>	<u>8.5</u>	<u>4.9</u>	<u>1.6</u>	

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

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

Remarks rejected!

LETTER OF CERTIFICATION

VISTA

Date: 2-25-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2810

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 2-25-90

Order No.: 831388-313

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	8.410	<u>.490</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.7</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 2-24-90 Product 5415 Trailer Number T-2810
 Customer ATHOL Silo 690, 691 Time 1600
 Technician Co & ES Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>4/1</u>		1. <u>4/2</u>	1. <u>.490</u>	1. <u>4.8</u>	L = <u>101.20</u>		
	2.		2.		2.			A = <u>0.02</u>		
MIDDLE	1.		1.		1.			B = <u>0.77</u>		<u>Flow</u>
	2.		2.		2.					<u>21.0</u>
END	1.		1.		1.					
	2.		2.		2.					

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.	_____	_____	_____	_____	_____	_____	_____	_____	_____
Tare	_____	_____	_____	_____	_____	_____	_____	_____	_____
Net Wt.	<u>0.00</u>	<u>0.19</u>	<u>14.00</u>	<u>17.39</u>	<u>10.88</u>	<u>4.40</u>	<u>2.36</u>	<u>0.64</u>	_____
% on Mesh	<u>0.0</u>	<u>0.4</u>	<u>28.0</u>	<u>34.8</u>	<u>22.0</u>	<u>8.8</u>	<u>4.7</u>	<u>1.3</u>	_____

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

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

Remarks _____

VAB.0001209691

LETTER OF CERTIFICATION

VISTA

Date: 12 Feb. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-576

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 12 Feb. 90

Order No.: 8311388-312

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.3
Bulk Density, gm/cc	8.410	4.87
Brabender Dry Time, mins	8.450	5.0
Particle Size, % on	8.300	
40 Mesh		0.0
200 Mesh		3.1
Pan		4.2
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of 1.00 to 1.04


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 2-11-90 Product 5415 Trailer Number T576
 Customer ATHOL Silo 691 Time 2400-00:30
 Technician AD/DT Order No. 8311388-312

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.	0.03	1.	2/2	1. 10/2	1. 487	1. 5.0	L = 100.54		
	2.		2.		2. NOL	2.	2.	A = 0.01		9.7
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		0 Metal
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	0.00	1.48	29.31	13.31	6.64	2.08	1.54	0.60	
% on Mesh	0.0	3.0	48.6	26.6	13.3	4.2	3.1	1.2	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 7 Feb. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

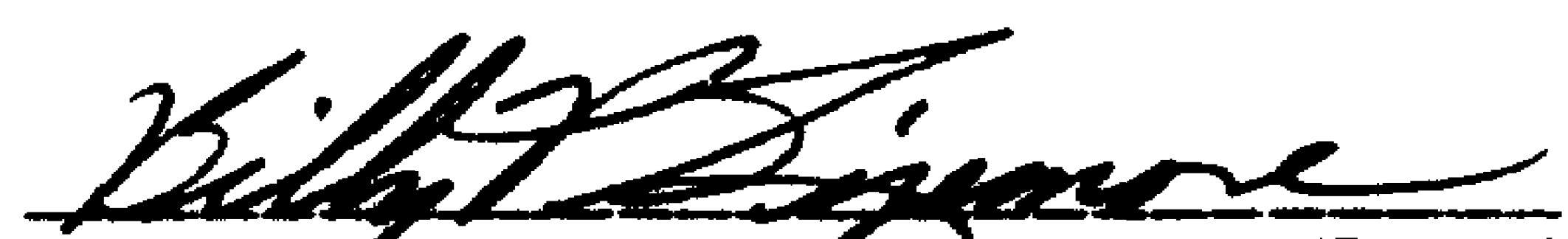
Trailer No.: F-2351

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 7 Feb. 90

Order No.: 831388-310

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	____.17____
Bulk Density, gm/cc	8.410	____.512____
Brabender Dry Time, mins	8.450	____.5.0____
Particle Size, % on	8.300	
40 Mesh		____.2.0____
200 Mesh		____.5.1____
Pan		____.1.3____
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 2-17-90 Product 5445 Trailer Number T-2351
 Customer Atto L Silo 690491 Time 08:40-09:10
 Technician P. J. + HDL Order No. 831388-0310

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1.	.17	1.	1/3	1. <u>6</u> <u>2</u> <u>PP</u>	1. <u>.512</u>	1. <u>5.0</u>	L = <u>101.06</u> A = <u>0.00</u> B = <u>0.95</u>		<u>0</u> <u>8.0</u>
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		<u>0</u> <u>metal</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.88</u>	<u>19.06</u>	<u>14.80</u>	<u>8.84</u>	<u>3.18</u>	<u>2.56</u>	<u>0.64</u>	
% on Mesh	<u>0.0</u>	<u>1.8</u>	<u>38.1</u>	<u>29.6</u>	<u>17.7</u>	<u>6.4</u>	<u>5.1</u>	<u>1.3</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 2-8-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 1-722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 2-8-90

Order No.: 831388-311

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	AER-1A	<u>.06</u>
Bulk Density, gm/cc	8.410	<u>.490</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.2</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 2-8-90 Product 5415 Trailer Number T-722
 Customer Orthol Silo 691 Time 0915
 Technician C. Dutton Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>06</u>		1. <u>4/2</u>		1. <u>7/2</u>	1. <u>490</u>	1. <u>4.9</u>	L = <u>100.22</u>		
	2.		2.		2.	2.	2.	A = <u>109</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>.98</u>		<u>0/10.4</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.47</u>	<u>17.13</u>	<u>16.21</u>	<u>9.52</u>	<u>3.31</u>	<u>2.60</u>	<u>.67</u>	
% on Mesh	<u>0.0</u>	<u>.9</u>	<u>34.3</u>	<u>32.4</u>	<u>19.3</u>	<u>6.6</u>	<u>5.2</u>	<u>1.3</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 2-3-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2868

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 2-3-90

Order No.: 831388-309

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.11</u>
Bulk Density, gm/cc	8.410	<u>.509</u>
Brabender Dry Time, mins	8.450	<u>4.7</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>7.5</u>
Pan		<u>1.7</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Terry J. Edwards
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 2-2-90 Product 5415 Trailer Number F-2868
 Customer athol Silo 690-691 Time 1630
 Technician A.J. & R.H. Order No. 831388-309

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM <i>Flow</i>
	Top	Bottom	Top	Bottom						
FRONT	1. <u>11</u>		1. <u>3</u>		1. <u>50</u>	1. <u>509</u>	1. <u>4.7</u>	L = <u>101.01</u>		<u>8.3</u>
	2.		2.		2.	2.	2.	A = <u>0.07</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>0.28</u>		
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.24</u>	<u>12.19</u>	<u>16.86</u>	<u>11.88</u>	<u>4.28</u>	<u>3.23</u>	<u>0.86</u>	
% on Mesh	<u>0.00</u>	<u>0.5</u>	<u>24.4</u>	<u>33.7</u>	<u>23.6</u>	<u>8.6</u>	<u>7.5</u>	<u>1.7</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: *31 Jan. 90*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-2868*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *31 Jan. 90*

Order No.: *831388-308*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.09</u>
Bulk Density, gm/cc	8.410	<u>.508</u>
Brabender Dry Time, mins	8.450	<u>4.9</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>4.9</u>
Pan		<u>1.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Lance M. Hay
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-31-90 Product 5415 Trailer Number T-2868
 Customer Athol Silo 690 Time 0900
 Technician MS Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.09</u>	.....	1. <u>2</u> <u>5</u>	.....	1. <u>6/3</u> <u>17</u>	1. <u>.508</u>	1. <u>4.9</u>	L = <u>101.01</u> + A = <u>.04</u> + B = <u>.91</u>	<u>Flow</u> <u>8.4</u>	
	2. ....	.....	2. ....	.....	2.	2.	2.			
MIDDLE	1. ....	.....	1. ....	.....	1.	1.	1.	L =		
	2. ....	.....	2. ....	.....	2.	2.	2.	A =		
END	1. ....	.....	1. ....	.....	1.	1.	1.	B =		
	2. ....	.....	2. ....	.....	2.	2.	2.	L =		
	.....	.....	.....	.....	.....	.....	.....	A =		
	.....	.....	.....	.....	.....	.....	.....	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tare <u>T</u>	.....	.....	.....	.....	.....	.....	.....	.....	.....
Net Wt.	<u>0.00</u>	<u>1.11</u>	<u>21.61</u>	<u>13.50</u>	<u>7.65</u>	<u>2.76</u>	<u>2.46</u>	<u>.76</u>	
% on Mesh	<u>0.0</u>	<u>2.2</u>	<u>43.2</u>	<u>27.0</u>	<u>15.7</u>	<u>5.5</u>	<u>4.9</u>	<u>1.5</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 23 Jan. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-122

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 23 Jan. 90

Order No.: 831388-306

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.15</u>
Bulk Density, gm/cc	8.410	<u>.486</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.2</u>
200 Mesh		<u>5.9</u>
Pan		<u>1.5</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.22</u> to <u>1.24</u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-23-90 Product 5415 Trailer Number T-722
 Customer AHOL Silo 690491 Time 11:00-11:30
 Technician PT. + JS. Order No. 831388-306

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>15</u>		1. <u>9</u>		1. <u>4 1/2</u> <u>R.P.</u>	1. <u>.486</u>	1. <u>4-8</u>	L = <u>100.80</u> A = <u>209</u> B = <u>0.80</u>		<u>0</u> <u>11.4</u>
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	B =		
	2.		2.		2.	2.	2.	L =		
								A =		
								B =		

Particle Size Distribution: no metal

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.36</u>	<u>16.46</u>	<u>15.98</u>	<u>9.73</u>	<u>3.62</u>	<u>2.94</u>	<u>0.74</u>	
% on Mesh	<u>0.0</u>	<u>0.7</u>	<u>32.9</u>	<u>32.0</u>	<u>19.8</u>	<u>7.2</u>	<u>5.9</u>	<u>1.5</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 _____

LETTER OF CERTIFICATION

VISTA

Date: 17 JAN. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

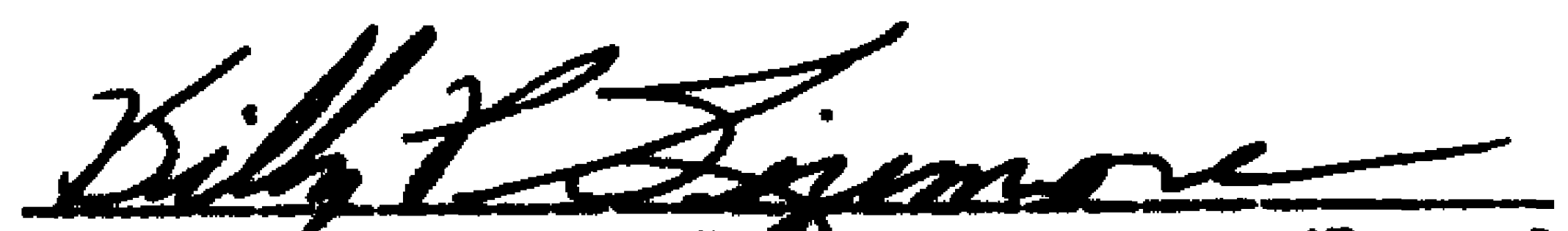
Trailer No.: T-223

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 17 JAN. 90

Order No.: 831388-304

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	___1.0___
Bulk Density, gm/cc	8.410	___4.96___
Brabender Dry Time, mins	8.450	___4.9___
Particle Size, % on	8.300	
40 Mesh		___0.2___
200 Mesh		___4.4___
Pan		___1.3___
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of ___1.00___ to ___1.04___.


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-17-90 Product 5415 Trailer Number T-723
 Customer athle Silo 691 Time 0630
 Technician C. Outhan Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>10</u>		1. <u>5/3</u>		1. <u>19/10</u>	1. <u>496</u>	1. <u>4.9</u>	L = <u>100.65</u>		
	2.		2.		2.	2.	2.	A = <u>.10</u>		
MIDDLE	1.		1.		1.	1.	1.	B = <u>1.12</u>		<u>0/8.4</u>
	2.		2.		2.	2.	2.	L =		
END	1.		1.		1.	1.	1.	A =		
	2.		2.		2.	2.	2.	B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>.42</u>	<u>19.69</u>	<u>15.55</u>	<u>8.65</u>	<u>3.05</u>	<u>2.22</u>	<u>.63</u>	
% on Mesh	<u>0.0</u>	<u>.8</u>	<u>39.4</u>	<u>31.1</u>	<u>16.9</u>	<u>6.1</u>	<u>4.4</u>	<u>1.3</u>	

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

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

Remarks _____

VAB.0001209705

LETTER OF CERTIFICATION

VISTA

Date: 1-15-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5445

Trailer No.: T-722

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 1-15-90

Order No.: 831388-303

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.08</u>
Bulk Density, gm/cc	8.410	<u>.512</u>
Brabender Dry Time, mins	8.450	<u>5.2</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.7</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.06</u> to <u>1.04</u> .

David Thompson
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-15-90 Product 545 Trailer Number T-722
 Customer Atkol Silo 690 + 91 Time 00:10 - 01:00
 Technician Pat + E.S. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>.08</u>		1. <u>.3</u>		1. <u>.3</u>	1. <u>.512</u>	1. <u>5.2</u>	L = <u>100.72</u>		<u>0</u> <u>9.8</u>
	2. <u>PP</u>		2. <u>6</u>		2. <u>PP</u>	2. <u></u>	2. <u></u>	A = <u>0.11</u>		
MIDDLE	1. <u></u>		1. <u></u>		1. <u></u>	1. <u></u>	1. <u></u>	L = <u></u>		<u>0</u> <u>metal</u>
	2. <u></u>		2. <u></u>		2. <u></u>	2. <u></u>	2. <u></u>	A = <u></u>		
END	1. <u></u>		1. <u></u>		1. <u></u>	1. <u></u>	1. <u></u>	L = <u></u>		
	2. <u></u>		2. <u></u>		2. <u></u>	2. <u></u>	2. <u></u>	A = <u></u>		
								B = <u></u>		

Particle Size Distribution:

Screen Analysis	Min	On Rotap shaker.	49 gms. Resin plus	1.0 gms. Carb						
Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.	
Gross Wt.										
Tare <u>T</u>										
Net Wt.	<u>0.00</u>	<u>0.75</u>	<u>19.88</u>	<u>15.78</u>	<u>7.40</u>	<u>2.78</u>	<u>2.37</u>	<u>0.68</u>		
% on Mesh	<u>0.0</u>	<u>1.5</u>	<u>39.8</u>	<u>31.6</u>	<u>15.4</u>	<u>5.6</u>	<u>4.7</u>	<u>14</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 _____

LETTER OF CERTIFICATION

VISTA

Date: 1-14-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2481

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 1-14-90

Order No.: 831388-302

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	8.410	<u>.508</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>5.1</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .

Curtis Outlaw
Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-13-90 Product 545 Trailer Number T-2481
 Customer ATHOL Silo 690 Time 01:00-01:30
 Technician PT. + E.S. 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</u>		1. <u>3 1/2</u>	1. <u>508</u>	1. <u>5.0</u>	L = <u>100.81</u>		<u>8.6</u>
	2. <u>4</u>		2. <u>4</u>		2. <u>R.P.</u>			A = <u>0.09</u>		
MIDDLE	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		<u>0</u>
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		
END	1. <u> </u>		1. <u> </u>		1. <u> </u>	1. <u> </u>	1. <u> </u>	L = <u> </u>		<u>metal</u>
	2. <u> </u>		2. <u> </u>		2. <u> </u>	2. <u> </u>	2. <u> </u>	A = <u> </u>		

Particle Size Distribution:

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

Mesh Size	40	60	80	100	120	140	200	Pan	Glassy Part.
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.18</u>	<u>16.40</u>	<u>15.56</u>	<u>10.06</u>	<u>4.26</u>	<u>2.54</u>	<u>0.63</u>	
% on Mesh	<u>0.0</u>	<u>0.4</u>	<u>32.8</u>	<u>31.1</u>	<u>20.8</u>	<u>8.5</u>	<u>5.7</u>	<u>1.3</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: 8 Jan. 90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: T-2480

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 8 Jan. 90

Order No.: 831388-299

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	14
Bulk Density, gm/cc	8.410	5.2
Brabender Dry Time, mins	8.450	5.0
Particle Size, % on	8.300	
40 Mesh		0.0
200 Mesh		3.9
Pan		1.2
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of 1.00 to 1.04.


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-8-90 Product 5445 Trailer Number F2480
 Customer ATHOL Silo 690+91 Time 13:55-15:00
 Technician DET + ES. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>14</u>		1. <u>1/2</u>		1. <u>4</u> <u>1</u>	1. <u>.572</u>	1. <u>5.0</u>	L = <u>10066</u> A = <u>0.14</u> B = <u>0.84</u>		<u>0</u> <u>8.9</u>
	2.		2.		2. <u>R.P.</u>	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L =		<u>NO METAL</u>
	2.		2.		2.	2.	2.	A =		
END	1.		1.		1.	1.	1.	L =		
	2.		2.		2.	2.	2.	A =		
								B =		

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare <u>T</u>									
Net Wt.	<u>0.00</u>	<u>0.75</u>	<u>23.10</u>	<u>12.90</u>	<u>7.18</u>	<u>3.21</u>	<u>1.96</u>	<u>0.62</u>	
% on Mesh	<u>0.0</u>	<u>1.5</u>	<u>46.2</u>	<u>25.8</u>	<u>15.0</u>	<u>6.4</u>	<u>3.9</u>	<u>1.2</u>	

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

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

Remarks _____

LETTER OF CERTIFICATION

VISTA

Date: *3 JAN. 80*

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: *5415*

Trailer No.: *T-576*

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: *3 JAN. 90*

Order No.: *831388-298*

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u> .04 </u>
Bulk Density, gm/cc	8.410	<u> .506 </u>
Brabender Dry Time, mins	8.450	<u> 4.3 </u>
Particle Size, % on	8.300	
40 Mesh		<u> P.D </u>
200 Mesh		<u> 4.3 </u>
Pan		<u> 1.3 </u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u> 1.00 </u> to <u> 1.04 </u> .


Laboratory Supervisor/Lead

PVC BULK TRAILER ANALYSIS

Date 1-3-90 Product 5415 Trailer Number T576
 Customer ATHOL Silo 690 Time 1040
 Technician ADL/TE Order No. 831388-298

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>04</u>		1. <u>3/4</u>		1. <u>23</u> <u>1 HA</u>	1. <u>.506</u>	1. <u>4.3</u>	L = <u>100.89</u> A = <u>0.07</u> B = <u>1.02</u>		<u>Flow</u> <u>9/11.0</u>
	2.		2.		2.	2.	2.			
MIDDLE	1.		1.		1.	1.	1.	L = A = B =		
	2.		2.		2.	2.	2.			
END	1.		1.		1.	1.	1.	L = A = B =		
	2.		2.		2.	2.	2.			

Particle Size Distribution:

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

	40	60	80	100	120	140	200	Pan	Glassy Part.
Mesh Size									
Gross Wt.									
Tare									
Net Wt.	<u>0.00</u>	<u>0.56</u>	<u>20.67</u>	<u>14.08</u>	<u>823</u>	<u>3.53</u>	<u>8.14</u>	<u>0.63</u>	
% on Mesh	<u>0.0</u>	<u>1.1</u>	<u>41.3</u>	<u>28.2</u>	<u>16.7</u>	<u>7.1</u>	<u>4.3</u>	<u>1.3</u>	

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

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

Remarks _____

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: 1-2-90

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 5415

Trailer No.: 72351

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 1-2-90

Order No.: 831388-297

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.10</u>
Bulk Density, gm/cc	8.410	<u>.495</u>
Brabender Dry Time, mins	8.450	<u>4.8</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.00</u>
200 Mesh		<u>4.9</u>
Pan		<u>1.4</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


Laboratory Supervisor/Lead

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

Aberdeen, Mississippi 39730
Phone (601) 369-8111

LETTER OF CERTIFICATION

VISTA

Date: 28 Nov. 89

Customer: Athol Manufacturing
P.O. Box 105
Butner, NC 27509

Product: 54/5

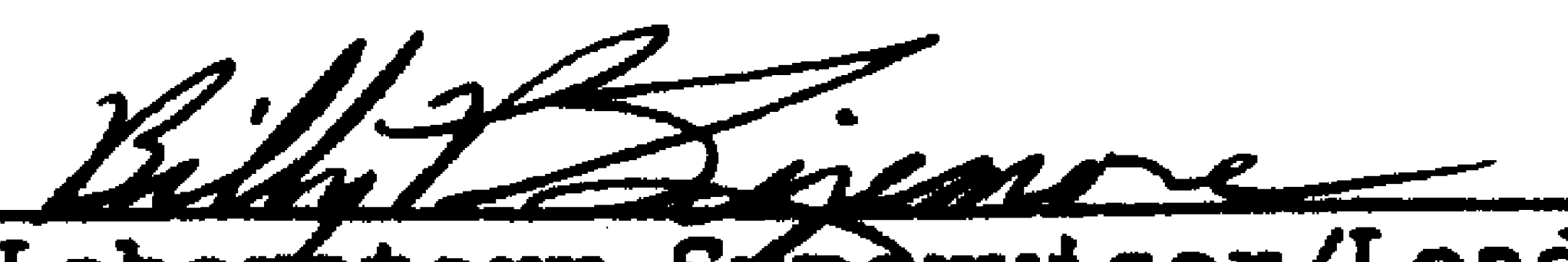
Trailer No.: T-723

Attention: Tom Baucom, Mgr. Tech. Services Lot No.:

Date of Shipment: 28 Nov. 89

Order No.: 831388-296

<u>Property</u>	<u>Test Method</u>	<u>Analysis</u>
Moisture, %	ABR-1A	<u>.15</u>
Bulk Density, gm/cc	8.410	<u>.510</u>
Brabender Dry Time, mins	8.450	<u>5.0</u>
Particle Size, % on	8.300	
40 Mesh		<u>0.0</u>
200 Mesh		<u>3.4</u>
Pan		<u>1.3</u>
Residual VCM, ppm	8.955	Not more than 8.5 PPM
Inherent Viscosity	8.600	This material was produced to yield an inherent viscosity in the range of <u>1.00</u> to <u>1.04</u> .


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PVC BULK TRAILER ANALYSIS

Date 11-28-89 Product 5445 Trailer Number T-723
 Customer Atko Silo 685+686 Time 11:55-12:00
 Technician P.T. Order No. _____

	MOIST		CON'T.		GEL	BULK DENSITY	DRY TIME	COLOR	VISC	RVCM
	Top	Bottom	Top	Bottom						
FRONT	1. <u>15</u>		1. <u>3</u>		1. <u>5</u>	1. <u>.570</u>	1. <u>5.0</u>	L = <u>100.89</u>		<u>0</u> <u>10.3</u>
	2. <u>5</u>		2. <u>5</u>		2. <u>5</u>			A = <u>0.17</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 <u>T</u>									
Net Wt.	<u>0.00</u>	<u>1.47</u>	<u>24.82</u>	<u>12.24</u>	<u>6.60</u>	<u>2.84</u>	<u>1.92</u>	<u>0.67</u>	
% on Mesh	<u>0.0</u>	<u>2.9</u>	<u>48.6</u>	<u>24.5</u>	<u>13.6</u>	<u>5.7</u>	<u>3.4</u>	<u>1.3</u>	

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

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

Remarks _____

