

Vista Polymers
A Division of
Vista Chemical Company

Highway 25
Post Office Box 91

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

CERTIFICATE OF ANALYSIS

Date: September 10, 1992

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

Product: 5265

Attention: Steve Ryan

Railcar No.: GACX 73389

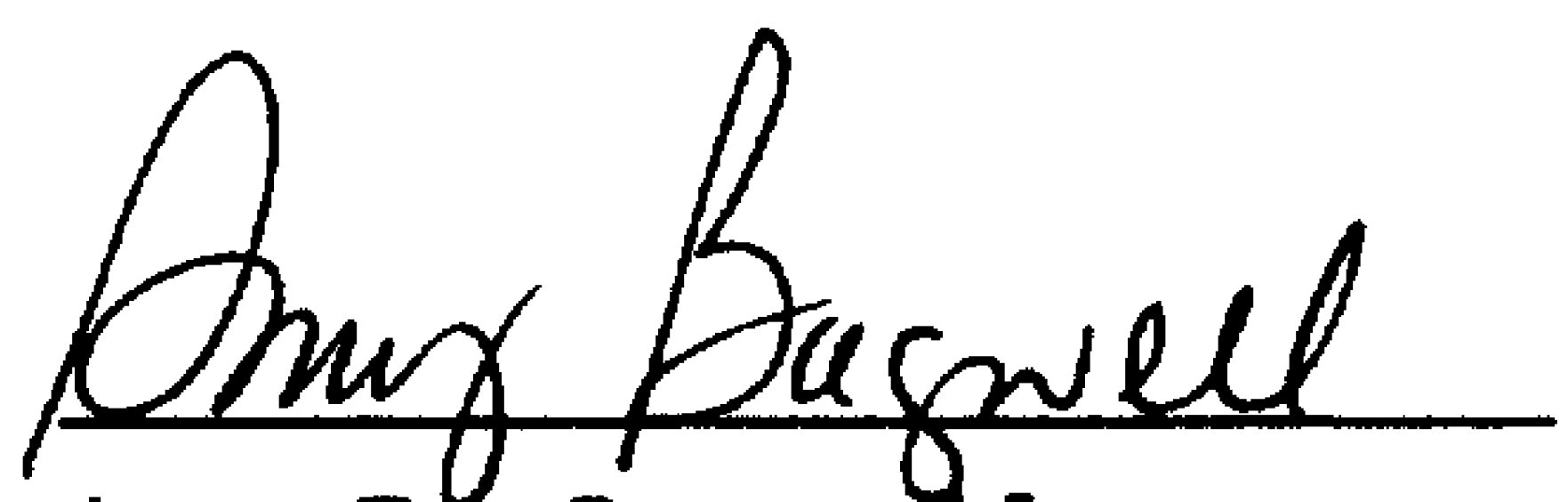
Ship Date: September 4, 1992

Order No.: 0014017-007

VISTA

<u>Property</u>	<u>Test Method</u>	<u>Specification</u>	<u>Analysis</u>
Moisture, %	ABR-1A	0.30 Max.	0.14
Bulk Density, gm/cc	ABR-2A	0.520 Min.	0.547
Particle Size Distribution	ABR-3		
% On 40 Mesh		0.1 Max.	0.00
% On 200 Mesh		*NDS	10.1
% On Pan		5.0 Max.	2.8
*Specification is 25.0% Max. for the 200 Mesh plus Pan.			
Residual VCM, ppm	ABGC-26	2.0 Max.	0.068
Inherent Viscosity	ABR-10	0.64 - 0.68	0.66

Polyvinyl Chloride, Virgin Resin, Not Reprocessed.



Amy E. Bagwell
Laboratory Supervisor

(601) 369-3624

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

VAB.0001202069

PVC RAILCAR ANALYSIS

Load Date: 9-3-92 Product: 5265 Car No.: 73389
 Time Logged In: 1200 Logged In By: CO Silo(s): 686
 Ship Date: 9/4 Order No: 14017-007 Customer: Nibco

no metal

Compartment	A		CA		CB		B	
Sample From	Bottom		Bottom		Bottom		Bottom	
Moisture %	.12		.14		.14		.12	
Contamination	BL							
	BR							
	<u>6</u>	<u>—</u>	<u>5</u>	<u>—</u>	<u>10</u>	<u>—</u>	<u>10</u>	<u>—</u>
	<u>9</u>		<u>12</u>		<u>22</u>		<u>35</u>	
Bulk Density	.547		.547		.548		.547	
BD w/antistat								
Viscosity	.664		.664		.663		.660	
RVCM	.068		.071		.069		.074	
Tappi Test Contamination Composite	.06 or less		.07 ----- .15		.20 ----- .60			
	<u>1/20</u>							

Screen Analysis

Mesh	40	60	80	100	120	140	200	Pan
Weight	<u>0.00</u>	<u>0.11</u>	<u>5.02</u>	<u>10.06</u>	<u>16.12</u>	<u>12.27</u>	<u>5.03</u>	<u>1.41</u>
%	<u>0.0</u>	<u>0.2</u>	<u>10.0</u>	<u>20.1</u>	<u>32.3</u>	<u>24.5</u>	<u>10.1</u>	<u>2.8</u>

Static Flow: 0, 7.6 Avg. Microns: 137

Color L: 97.67 a 0.61 b 1.88

Technician: G+ES