AuroraTec™ AP5113L
Aurora Material Solutions, LLC - *Polyvinyl Chloride*

General Information

Product Description

A rigid PVC pellet, extrusion compound designed for applications requiring excellent melt strength, superior sizing, low die swell, excellent color dispersion, and excellent physical properties.

Typical test results for ASTM D-4216. This is a rigid PVC formulation per the requirements of AAMA 303. This material meets/exceeds cell class 1-20131-13, as required in ASTM D-4726.

Note: Additional custom color matching is available upon request.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Dispersible • Good Rigidity	• High Melt Strength • Low Die Swell	
Uses	• Agricultural Applications • Appliances • Automotive Applications • Consumer Applications • Electrical/Electronic Applications	• Fencing & Decking • Film • Medical/Healthcare Applications • Outdoor Applications • Rail Applications	• Sheet • Spas • Windows & Doors
Agency Ratings	• AAMA 303	• ASTM D4726	• NSF STD-51
Forms	• Pellets		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37		ASTM D792

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	390000	psi	ASTM D638
Tensile Strength	6450	psi	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Flexural Strength	11700	psi	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	ft·lb/in	ASTM D256
Dart Impact [2]			ASTM D4226
Procedure A	1	in·lb/mil	
Procedure B	> 4	in·lb/mil	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	78		ASTM D2240

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Annealed)	162	°F	ASTM D648
CLTE - Flow	3.0E-5	in/in/°F	ASTM D696

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Min Failure