AuroraTec™ AP5113D

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. AP5113D has UL listings for V-0 along with NSF Standard 51 listings for some colors.

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