

AuroraTec™ AP5146

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

A weatherable rigid PVC pellet compound designed for extrusion applications requiring good melt strength, excellent processing, and excellent physical properties. This is a rigid PVC formulation per the requirements of AAMA 303-19. This material meets/exceeds cell class 1-20131-13, as required in ASTM D-4726. Also, this material meets/exceeds cell class 1-20233-23, as required in ASTM F-964.

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	• Excellent Processability • Good Melt Strength		
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 19	• ASTM D4726	
Appearance	• Colors Available		
Forms	• Pellets		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.44		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	420000	psi	ASTM D638
Tensile Strength	6430	psi	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.5	ft·lb/in	ASTM D256
Dart Impact ³			ASTM D4226
Procedure A	1	in·lb/mil	
Procedure B	> 3	in·lb/mil	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Annealed)	158	°F	ASTM D648
CLTE - Flow	3.5E-5	in/in/°F	ASTM D696

Notes

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

² white

³ Min Failure

