

AuroraGuard™ AP5166A

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

A higher temperature modified PVC pellet extrusion compound

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Aerospace Applications • Agricultural Applications • Appliances • Automotive Applications	• Consumer Applications • Electrical/Electronic Applications • Energy Storage • Fencing & Decking	• Medical/Healthcare Applications • Rail Applications • Siding Applications
Agency Ratings	• NSF STD-51		
Forms	• Pellets		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	500000	psi	ASTM D638
Tensile Strength	6340	psi	ASTM D638
Flexural Modulus	430000	psi	ASTM D790
Flexural Strength	11200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.9	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	77		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Annealed)	171	°F	ASTM D648
Ball Pressure Test (185°F)	Pass		IEC 60695-10-2
CLTE - Flow	3.5E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in		HB	
0.12 in		HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in	1810	°F	
0.12 in	1810	°F	

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