

AuroraTec™ AP1400

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information

Product Description

A general-purpose rigid PVC powder extrusion compound designed for applications requiring good melt strength, excellent weathering, low die swell, and excellent physical properties. This is a rigid PVC formulation per the requirements of AAMA 303-08. 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	• Excellent Weather Resistance • General Purpose	• Good Melt Strength • Good Rigidity	• Low Die Swell
Uses	• General Purpose		
Agency Ratings	• AAMA 303 08	• ASTM D4726	
Appearance	• Colors Available		
Forms	• Powder		
Processing Method	• Extrusion		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	345000	psi	ASTM D638
Tensile Strength	6250	psi	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	12	ft·lb/in	ASTM D256
Dart Impact ²			ASTM D4226
Procedure A		1 in·lb/mil	
Procedure B		> 3 in·lb/mil	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	79		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Annealed)	158	°F	ASTM D648
CLTE - Flow	2.9E-5	in/in/°F	ASTM D696

Notes

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

² Min Failure

