

AuroraTec™ AP1455VP

Aurora Material Solutions, LLC - Polyvinyl Chloride

General Information
Product Description

A rigid PVC powder extrusion compound designed for applications requiring good melt strength, excellent weathering, broad processing window and excellent physical properties.

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	• Good Melt Strength • Good Processability • Good Rigidity • Good Weather Resistance
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
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity			ASTM D792
-- ²	1.45		
-- ³	1.46		
-- ⁴	1.45		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	381000	psi	ASTM D638
Tensile Strength	6400	psi	ASTM D638
Flexural Modulus	395000	psi	ASTM D790
Flexural Strength	10600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	23	ft-lb/in	ASTM D256
Dart Impact ⁵			ASTM D4226
Procedure A	1	in-lb/mil	
Procedure B	> 4	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)	162	°F	ASTM D648

Notes

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

² WH1391

³ BG1219

⁴ GR1083

⁵ Min Failure

