

PolyOne Geon™ HTX E1502 Polyvinyl Chloride Alloy (PVC Alloy)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

VSI FLAMMABILITY: Burn Length (0.040 in Bar) ASTM D635 0* IN. Burn Time (0.040 in Bar) ASTM D635 0* Sec.* Extinguished before 25 MM starting ref mark. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-HTX-E1502-Polyvinyl-Chloride-Alloy-PVC-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	15 sec; ASTM D2240
Tensile Strength, Yield	49.6 MPa	7190 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.74 GPa	397 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ASTM D790
Flexural Modulus	2.77 GPa	402 ksi	ASTM D790
Izod Impact, Notched	0.340 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.637 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	67.6 J/cm @Temperature 23.0 °C	0.127 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	68.9 J/cm @Temperature 23.0 °C	0.129 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	88.9 °C @Treatment Temp. 50.0 °C, Thickness 3.18 mm	192 °F @Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
	90.0 °C @Treatment Temp. 60.0 °C, Thickness 3.18 mm	194 °F @Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648

Thermal Properties	84.4 °C Metric	184 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	@Treatment Temp. 50.0 °C, Thickness 3.18 mm	@Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
	84.4 °C	184 °F	
	@Treatment Temp. 60.0 °C, Thickness 3.18 mm	@Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 204 °C	379 - 399 °F	

Descriptive Properties	Value	Comments
Features	Medium Heat Resistance	
	Medium Impact Resistance	
Forms	Powder	
Generic Material	PVC Alloy	
Generic Name	Polyvinyl Chloride Alloy (PVC Alloy)	
Processing Method	Extrusion	
PVC Cell Classification	11445	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Building Materials	
	Siding Substrate	

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