

## PolyOne Geon™ HTX L1502 Polyvinyl Chloride Alloy (PVC Alloy)

Category : Polymer , Thermoplastic , Vinyl (PVC)

### Material Notes:

Physical properties based on Geon HTX L1502 white 1000. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Geon-HTX-L1502-Polyvinyl-Chloride-Alloy-PVC-Alloy.php](http://www.lookpolymers.com/polymer_PolyOne-Geon-HTX-L1502-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	78	78	15 sec; ASTM D2240
Tensile Strength, Yield	48.9 MPa	7090 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.72 GPa	395 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.97 GPa	431 ksi	ASTM D790
Izod Impact, Notched	0.510 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.955 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	57.8 J/cm @Temperature 23.0 °C	0.108 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	57.8 J/cm @Temperature 23.0 °C	0.108 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.0 µm/m-°C	36.7 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	83.9 °C @Treatment Temp. 60.0 °C, Thickness 3.18 mm	183 °F @Treatment Temp. 140 °F, Thickness 0.125 in	Annealed; ASTM D648
	88.3 °C @Treatment Temp. 50.0 °C, Thickness 3.18 mm	191 °F @Treatment Temp. 122 °F, Thickness 0.125 in	Annealed; ASTM D648
	82.8 °C	181 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (124 psi)	@ Treatment Temp. 50.0 °C, Thickness 3.18 mm	@ Treatment Temp. 122 °F, Thickness 0.125 in	ASTM D648
	85.4 °C	186 °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	Cube	
Generic Material	PVC Alloy	
Generic Name	Polyvinyl Chloride Alloy (PVC Alloy)	
Processing Method	Extrusion	
PVC Cell Classification	12445	ASTM D1784
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Building Materials	
	Siding Substrate	

## Contact Songhan Plastic Technology Co.,Ltd.

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