



# Geon™ HTX L1502

## Polyvinyl Chloride Alloy

### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Medium Heat Resistance • Medium Impact Resistance		
Uses	• Building Materials • Siding Substrate		
Forms	• Cube		
Processing Method	• Extrusion		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.28	1.28	ASTM D792
PVC Cell Classification	12445	12445	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus <sup>2</sup>	394000 psi	2720 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	7090 psi	48.9 MPa	ASTM D638
Flexural Modulus	431000 psi	2970 MPa	ASTM D790
Flexural Strength	13500 psi	93.1 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.96 ft·lb/in	51 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) <sup>3</sup>	1.30 in·lb/mil	57.8 J/cm	ASTM D4226
73°F (23°C) <sup>4</sup>	1.30 in·lb/mil	57.8 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	78	78	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) <sup>5</sup>	183 °F	83.9 °C	ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) <sup>6</sup>	191 °F	88.3 °C	
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) <sup>5</sup>	186 °F	85.4 °C	ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) <sup>6</sup>	181 °F	82.8 °C	
CLTE - Flow	3.7E-5 in/in/°F	6.6E-5 cm/cm/°C	ASTM D696

#### Additional Information

Physical properties based on Geon HTX L1502 white 1000.

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Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	380 to 400 °F	193 to 204 °C

Notes

- <sup>1</sup> Typical values are not to be construed as specifications.
- <sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)
- <sup>3</sup> Procedure A, C.125 Dart
- <sup>4</sup> Procedure B, C.125 Dart
- <sup>5</sup> Annealed at 60 deg.C
- <sup>6</sup> Annealed at 50 deg.C

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