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 [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / 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 [2]	394000 psi	2720 MPa	ASTM D638
Tensile Strength [2] (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			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.96 ft·lb/in	51 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.30 in·lb/mil	57.8 J/cm	
73°F (23°C) [4]	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			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [5]	183 °F	83.9 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [6]	191 °F	88.3 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) [5]	186 °F	85.4 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) [6]	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.

Processing Information

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

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

[3] Procedure A, C.125 Dart

[4] Procedure B, C.125 Dart

[5] Annealed at 60 deg.C

[6] Annealed at 50 deg.C

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