



Geon™ HTX E1502

Polyvinyl Chloride Alloy

Key Characteristics

Product Description

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.

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	• Powder		
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	11445	11445	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	398000 psi	2740 MPa	ASTM D638
Tensile Strength ² (Yield)	7200 psi	49.6 MPa	ASTM D638
Flexural Modulus	402000 psi	2770 MPa	ASTM D790
Flexural Strength	13200 psi	91.0 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	0.63 ft·lb/in	34 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³ 73°F (23°C) ⁴	1.52 in·lb/mil 1.55 in·lb/mil	67.6 J/cm 68.9 J/cm	ASTM D4226
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	79	79	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) ⁵	194 °F	90.0 °C	ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁶	192 °F	88.9 °C	
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) ⁵	184 °F	84.4 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) ⁶	184 °F	84.4 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.4E-5 cm/cm/°C	ASTM D696

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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