



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 • Europe • Asia Pacific • 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
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	ASTM D648
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

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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

CONTACT INFORMATION

Americas	Asia	Europe
United States - Avon Lake +1 440 930 1000	China - Guangzhou +86 20 8732 7260	Germany - Gaggenau +49 7225 6802 0
United States - McHenry +1 815 385 8500	China - Shenzhen +86 755 2969 2888	Spain - Barbaastro (Huesca) +34 974 310 314
	China - Suzhou +86 512 6823 24 38	
	China - Suzhou +86 512 6265 2600	
	Hong Kong - +852 2690 5332	
	Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849	



Beyond Polymers.
Better Business Solutions. SM
www.polyone.com

PolyOne Americas	PolyOne Asia	PolyOne Europe
33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000 +1 866 POLYONE	No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong Shanghai, 201203, China +86 21 5080 1188	6 Giällewee +352 269 050 35

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