# 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<br>• Asia Pacific | • Europe<br>• 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 | | | ASTM D256A |
| 73°F (23°C), 0.125 in (3.18 mm), Compression Molded | 0.63 ft·lb/in | 34 J/m | |
| Drop Impact Resistance | | | ASTM D4226 |
| 73°F (23°C) [3] | 1.52 in·lb/mil | 67.6 J/cm | |
| 73°F (23°C) [4] | 1.55 in·lb/mil | 68.9 J/cm | |
| **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 | | | ASTM D648 |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [5] | 194 °F | 90.0 °C | |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [6] | 192 °F | 88.9 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 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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