



Geon™ HTX LA550

Polyvinyl Chloride Alloy

Key Characteristics

| Product Description | |
|---|---|
| Geon HTX LA550 is a PVC Alloy suitable for darker colors and horizontal applications. | |
| General | |
| Material Status | • Commercial: Active |
| Regional Availability | • Africa & Middle East • Asia Pacific • Europe • Latin America • North America |
| Features | • High Gloss • Medium Heat Resistance • Medium Impact Resistance • Weather Resistant |
| Uses | • Capstock • Outdoor Applications |
| Forms | • Cube |
| Processing Method | • Extrusion |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|--|------------------------------------|-------------------------|-------------|
| Density / Specific Gravity | 1.20 | 1.20 | ASTM D792 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus ² | 325000 psi | 2240 MPa | ASTM D638 |
| Tensile Strength ² (Yield) | 6700 psi | 46.2 MPa | ASTM D638 |
| Flexural Modulus | 330000 psi | 2280 MPa | ASTM D790 |
| Flexural Strength | 9900 psi | 68.3 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 | 2.3 ft·lb/in | 120 J/m | ASTM D256A |
| Drop Impact Resistance 73°F (23°C) ³ 73°F (23°C) ⁴ | 1.11 in·lb/mil > 4.00 in·lb/mil | 49.4 J/cm > 178 J/cm | ASTM D4226 |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore D, 15 sec) | 81 | 81 | 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 | 183 °F | 83.9 °C | ASTM D648 |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁶ | 184 °F | 84.4 °C | |
| Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) ⁵ | 171 °F | 77.2 °C | ASTM D648 |
| 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) ⁶ | 168 °F | 75.6 °C | |
| CLTE - Flow | 4.7E-5 in/in/°F | 8.5E-5 cm/cm/°C | ASTM D696 |

Additional Information

Physical properties based on Geon HTX LA550 Brown 3566.

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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