



Geon™ Vinyl Flexible C7500

Flexible Polyvinyl Chloride

Key Characteristics

| General | | | |
|-----------------------|--|-----------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • General Purpose • Medium Gloss | | |
| Uses | • General Purpose | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Specific Gravity | 1.37 | 1.37 | ASTM D792 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² (100% Strain) | 700 psi | 4.83 MPa | ASTM D638 |
| Tensile Strength ² (Break) | 1500 psi | 10.3 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 380 % | 380 % | ASTM D638 |
| Elastomers | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength ³ | 250 lbf/in | 43.8 kN/m | ASTM D624 |
| Compression Set (73°F (23°C), 22 hr) | 25 % | 25 % | ASTM D395 |
| Clash-Berg Modulus | | | ASTM D1043 |
| -- | 20000 psi | 138 MPa | |
| -44°F (-42°C) | 45000 psi | 310 MPa | |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 75 | 75 | |
| Shore A, 15 sec | 67 | 67 | |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature | -40.0 °F | -40.0 °C | ASTM D746 |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 370 to 390 °F | 188 to 199 °C |
| Extrusion | Typical Value (English) | Typical Value (SI) |
| Melt Temperature | 345 to 355 °F | 174 to 179 °C |

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

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