



Geon™ Vinyl Flexible C90UB

Flexible Polyvinyl Chloride

Key Characteristics

| General | | | |
|-----------------------|--|--|-----------------|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Additive | • Biocide • UV Stabilizer | | |
| Features | • Medium Gloss • UV Absorbing | | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion • Extrusion | • Injection Molding • Profile Extrusion | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Density / Specific Gravity | 1.45 | 1.45 | ASTM D792 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² (100% Strain) | 1300 psi | 8.96 MPa | ASTM D638 |
| Tensile Strength ² (Break) | 2150 psi | 14.8 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 350 % | 350 % | ASTM D638 |
| Elastomers | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength ³ | 370 lbf/in | 64.8 kN/m | ASTM D624 |
| Compression Set (73°F (23°C), 22 hr) | 32 % | 32 % | ASTM D395 |
| Clash-Berg Modulus | | | ASTM D1043 |
| -- | 84000 psi | 579 MPa | |
| -15°F (-26°C) | 45000 psi | 310 MPa | |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 90 | 90 | |
| Shore A, 15 sec | 84 | 84 | |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature | -19.0 °F | -28.3 °C | ASTM D746 |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 380 to 400 °F | 193 to 204 °C |
| Extrusion | Typical Value (English) | Typical Value (SI) |
| Melt Temperature | 350 to 360 °F | 177 to 182 °C |

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)