



Geon™ Vinyl Flexible C8000

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 | • Seals | • Weatherstripping |
| Agency Ratings | • NSF 51 ¹ | | |
| Forms | • Pellets | | |
| Processing Method | • Coextrusion | • Extrusion | • Injection Molding |

Technical Properties²

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Specific Gravity | 1.40 | 1.40 | ASTM D792 |
| Molding Shrinkage - Flow | 0.017 to 0.021 in/in | 1.7 to 2.1 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ³ (100% Strain) | 850 psi | 5.86 MPa | ASTM D638 |
| Tensile Strength ³ (Break) | 1700 psi | 11.7 MPa | ASTM D638 |
| Tensile Elongation ³ (Break) | 380 % | 380 % | ASTM D638 |
| Elastomers | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength ⁴ | 250 lbf/in | 43.8 kN/m | ASTM D624 |
| Compression Set (73°F (23°C), 22 hr) | 23 % | 23 % | ASTM D395 |
| Clash-Berg Modulus | | | ASTM D1043 |
| -- | 30000 psi | 207 MPa | |
| -38°F (-39°C) | 45000 psi | 310 MPa | |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 80 | 80 | |
| Shore A, 15 sec | 72 | 72 | |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature | -36.0 °F | -37.8 °C | ASTM D746 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating | HB | HB | UL 94 |

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 | 345 to 355 °F | 174 to 179 °C |

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Notes

¹ NATURAL, WHITE 1000, BLACK 2999.
Max. Temp. of use = 100 degrees F.

² Typical values are not to be construed as specifications.

³ 20 in/min (510 mm/min)

⁴ Die C, 20 in/min (510 mm/min)

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