



Geon™ Vinyl Flexible A5DM0

Flexible Polyvinyl Chloride

Key Characteristics

| Product Description | | | |
|------------------------|--|-----------------------------|-----------------------|
| Interior applications. | | | |
| General | | | |
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Features | • General Purpose | • High Gloss | • Low to No Migration |
| Uses | • General Purpose | | |
| Appearance | • Clear/Transparent | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Specific Gravity | 1.27 | 1.27 | ASTM D792 |
| Molding Shrinkage - Flow | 0.012 to 0.016 in/in | 1.2 to 1.6 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² (100% Strain) | 1900 psi | 13.1 MPa | ASTM D638 |
| Tensile Strength ² (Break) | 2800 psi | 19.3 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 320 % | 320 % | ASTM D638 |
| Elastomers | Typical Value (English) | Typical Value (SI) | Test Method |
| Tear Strength ³ | 400 lbf/in | 70.1 kN/m | ASTM D624 |
| Compression Set (73°F (23°C), 22 hr) | 50 % | 50 % | ASTM D395 |
| Clash-Berg Modulus | | | ASTM D1043 |
| -- | 140000 psi | 965 MPa | |
| 14°F (-10°C) | 45000 psi | 310 MPa | |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore D) | 50 | 50 | ASTM D2240 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature | -2.00 °F | -18.9 °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 | 355 to 365 °F | 179 to 185 °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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