



Geon™ Vinyl Flexible R4510H

Flexible Polyvinyl Chloride

Key Characteristics

| General | | | |
|-----------------------|--|-----------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Additive | • Lubricant | | |
| Features | • Good Thermal Stability | • High Gloss | • Lubricated |
| Uses | • Hose | • Tubing | |
| Appearance | • Clear/Transparent | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Specific Gravity | 1.23 | 1.23 | ASTM D792 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² (100% Strain) | 1130 psi | 7.76 MPa | ASTM D638 |
| Tensile Strength ² (Break) | 2250 psi | 15.5 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 350 % | 350 % | ASTM D638 |
| Hardness | Typical Value (English) | Typical Value (SI) | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 70 | 70 | ASTM D2240 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Brittleness Temperature | -22.0 °F | -30.0 °C | ASTM D746 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Oxygen Index (0.125 in (3.18 mm)) | 24 % | 24 % | ASTM D2863 |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 380 to 390 °F | 193 to 199 °C |
| Extrusion | Typical Value (English) | Typical Value (SI) |
| Melt Temperature | 355 to 360 °F | 179 to 182 °C |

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

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