# Geon™ Vinyl Rigid Molding M7500

## Polyvinyl Chloride Alloy

### Key Characteristics

| | | | |
|---|---|---|---|
| **Product Description** | | | |
| Custom Molding | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Features | • General Purpose | • High Flow | • Medium Impact Resistance |
| Uses | • Construction Applications | • General Purpose | • Outdoor Applications |
| Appearance | • Translucent | | |
| Forms | • Pellets | | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Specific Gravity | 1.27 | 1.27 | ASTM D792 |
| Spiral Flow | 41.0 in | 104 cm | |
| Molding Shrinkage - Flow | 2.0E-3 to 5.0E-3 in/in | 0.20 to 0.50 % | ASTM D955 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Modulus [2] | | | ASTM D638 |
| 73°F (23°C), 0.125 in (3.18 mm) | 277000 psi | 1910 MPa | |
| Tensile Strength [2] | | | ASTM D638 |
| Yield, 73°F (23°C), 0.125 in (3.18 mm) | 5800 psi | 40.0 MPa | |
| Tensile Elongation [2] | | | ASTM D638 |
| Break, 73°F (23°C), 0.125 in (3.18 mm) | 35 % | 35 % | |
| Flexural Modulus | | | ASTM D790 |
| 73°F (23°C), 0.125 in (3.18 mm) | 278000 psi | 1920 MPa | |
| Flexural Strength | | | ASTM D790 |
| 73°F (23°C), 0.125 in (3.18 mm) | 8300 psi | 57.2 MPa | |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Notched Izod Impact | | | ASTM D256A |
| 73°F (23°C), 0.125 in (3.18 mm), Injection Molded | 4.0 ft·lb/in | 210 J/m | |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Durometer Hardness (Shore D) | 80 | 80 | ASTM D2240 |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm) | 139 °F | 59.5 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) | 154 °F | 67.8 °C | |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm) | 125 °F | 51.6 °C | |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) | 148 °F | 64.4 °C | |

## Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|---|---|---|
| Processing (Melt) Temp | 390 to 400 °F | 199 to 204 °C |

### Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 2.0 in/min (51 mm/min)

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