



Maxxam™ VS-818.G001-1023

Polypropylene

Key Characteristics

| General | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Regional Availability | • Asia Pacific |
| Filler / Reinforcement | • Glass Fiber, 10% Filler by Weight |
| Appearance | • Natural Color |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Density / Specific Gravity | 0.982 | 0.982 | ASTM D792 |
| Molding Shrinkage - Flow | 7.0E-3 to 0.010 in/in | 0.70 to 1.0 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² | 7540 psi | 52.0 MPa | ASTM D638 |
| Tensile Elongation ² (Break) | 10 % | 10 % | ASTM D638 |
| Flexural Modulus ³ | 355000 psi | 2450 MPa | ASTM D790 |
| Flexural Strength ³ | 9430 psi | 65.0 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm) | 0.94 ft·lb/in | 50 J/m | ASTM D256 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm) | 239 °F | 115 °C | ASTM D648 |
| Electrical | Typical Value (English) | Typical Value (SI) | Test Method |
| Surface Resistivity | 1.0E+16 ohms | 1.0E+16 ohms | ASTM D257 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating (0.06 in (1.6 mm)) | HB | HB | UL 94 |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 185 °F | 80 to 85 °C |
| Drying Time | 2.0 to 3.0 hr | 2.0 to 3.0 hr |
| Rear Temperature | 392 to 464 °F | 200 to 240 °C |
| Middle Temperature | 392 to 464 °F | 200 to 240 °C |
| Front Temperature | 392 to 464 °F | 200 to 240 °C |
| Mold Temperature | 86 to 140 °F | 30 to 60 °C |

| Injection Notes |
|------------------------------|
| Injection Pressure: MED-HIGH |
| Hold Pressure: MED-HIGH |
| Screw Speed: MODERATE |
| Back Pressure: LOW |

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)



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