



# Maxxam™ GV-418.G001-1093

## Polypropylene

### Key Characteristics

Product Description	
Glass fiber reinforced PP, impact modified and good heat stability	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Natural Color
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.11 g/cm <sup>3</sup>	1.11 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0 to 5.0 g/10 min	1.0 to 5.0 g/10 min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress - Flow (Yield, Injection Molded)	10200 psi	70.0 MPa	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	682000 psi	4700 MPa	ISO 178
Flexural Stress <sup>2</sup>	15200 psi	105 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	4.8 ft·lb/in <sup>2</sup>	10 kJ/m <sup>2</sup>	ISO 180
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Ball Indentation Hardness	13100 psi	90.0 MPa	ISO 2039-1
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	275 °F	135 °C	ISO 75-2/A

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	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

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 0.079 in/min (2.0 mm/min)