



Maxxam™ PP-40GF/000 BLACK

Polypropylene

Key Characteristics

Product Description	
Glass fiber reinforced PP	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber
Features	• High Stiffness
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22	ASTM D792
Molding Shrinkage	0.20 to 0.60 %	0.20 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	12300 psi	85.0 MPa	ASTM D638
Flexural Modulus ³	1.00E+6 psi	6900 MPa	ASTM D790
Flexural Strength ³	19600 psi	135 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), Injection Molded	2.0 ft-lb/in	110 J/m	ASTM D256A
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)	302 °F	150 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

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

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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