



PoliPIR PETGF-3300

Glass Reinforced, Black, PET, Injection Molding Grade

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.56 g/cc	1.56 g/cc	D792
Mold Shrinkage Parallel: 23 °C Perpendicular: 23°C	0.5-0.7% 0.8%-1.0%	0.5-0.7% 0.8%-1.0%	D955
Melt Flow Rate (2.16kg, 230 °C)	30 g/10min	30 g/10min	D1238
Ash (Glass-fiber)	30%	30%	D2584

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	17,000 psi	128 MPa	ISO 527
Tensile Strain (Break)	5%	5%	ISO 527
Flexural Modulus	1,150,000 psi	8620 MPa	ISO 178
Flex Strength	27,500 psi	197 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 23 °C	1.2 ft-lb/in	6.4 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 23°C	7.5 ft-lb/in	40 kJ/m ²	ISO 179
Notched Izod Impact Strength 23°C	1.1 ft-lb/in	6.0 kJ/m ²	ISO 180

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 0.45 MPa Unannealed 1.8 MPa Unannealed	473 °F 435 °F	245 °C 224 °C	ISO 75
Melting Temperature	486 °F	252 °C	D3418

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
0.71 mm	HB	HB	UL94
1.50 mm	HB	HB	UL94
3.00 mm	HB	HB	UL94



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