



PolixL™ PPHGF40BK

PPH, 40% Fiberglass Reinforced, Black, Heat Stabilized

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.22 g/cc	1.22 g/cc	D792
Mold Shrinkage Parallel: 23 °C Perpendicular: 23°C	0.1-0.6 % 0.5-1.2 %	0.1-0.6 % 0.5-1.2 %	D955
Melt Flow Rate (2.16kg, 230 °C)	7 g/10min	7 g/ 10min	D1238
Ash (Glass-fiber)	40 %	40%	D2584

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	14,500 psi	100 MPa	ISO 527
Tensile Strain (Break)	3 %	3%	ISO 527
Flexural Modulus	1,250,000 psi	8600 MPa	ISO 178
Flex Strength	17,400 psi	120 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 23 °C	1.5 ft-lb/in	8 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 23°C	10.7 ft-lb/in	57 kJ/m ²	ISO 179
Notched Izod Impact Strength 23°C	1.5 ft-lb/in	8 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	- 293 °F	- 145 °C	ISO 75
Melting Temperature	324 °F	162 °C	ISO 11357

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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