



PolixL™ PPCGF40BK

PPC, 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	0.35% 0.80%	0.35% 0.80%	D955
Melt Flow Rate (2.16kg, 230 °C)	15 g/10min	15 g/10min	D1238
Ash (Glass-fiber)	40%	40%	D2584

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	11,900	82 MPa	ISO 527
Tensile Strain (Break)	3 %	3%	ISO 527
Flexural Modulus	1,087,780 psi	7,500 MPa	ISO 178
Flex Strength	18,000 psi	124 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 23 °C	1.9 ft-lb/in	10 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 23°C	9.4 ft-lb/in	50 kJ/m ²	ISO 179
Notched Izod Impact Strength 23°C	1.9 ft-lb/in	10 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	- 275 °F	- 135°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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