



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			D955
Parallel: 23 °C	0.2 % - 0.4 %	0.2 % - 0.4 %	
Perpendicular: 23°C	0.65 % - 0.85 %	0.65 % - 0.85 %	
Melt Flow Rate (2.16kg, 230 °C)	10 g/10min	10 g/10min	D1238
Ash (Glass-fiber)	40 %	40 %	D2584

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	11,900 psi	82 MPa	ISO 527
Tensile Strain (Break)	5 %	5 %	ISO 527
Flexural Modulus	740,000 psi	5,100 MPa	ISO 178
Flex Strength	16,000 psi	110 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 23 °C	2.6 ft-lb/in	14 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 23°C	12 ft-lb/in	63 kJ/m ²	ISO 179
Notched Izod Impact Strength 23°C	2.5 ft-lb/in	13 kJ/m ²	ISO 180

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 0.45 MPa Unannealed	-	-	ISO 75
1.8 MPa Unannealed	300 °F	149 °C	
Melting Temperature	324 °F	162 °C	DSC

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



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