



PoliXL™ PPHMG40BK

PPH, 40% Mineral/Fiberglass Reinforced, Black, Heat Stabilized

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.26 g/cc	1.26 g/cc	D792
Mold Shrinkage			D955
Parallel: 23 °C	0.1 % - 0.3 %	0.1 % - 0.3 %	
Perpendicular: 23°C	0.4 % - 0.6 %	0.4 % - 0.6 %	
Melt Flow Rate (2.16kg, 230 °C)	10 g/10min	10 g/10min	D570
Ash (Mineral/Glass-fiber)	40 %	40 %	D2584

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	8,000 psi	55 MPa	ISO 527
Tensile Strain (Break)	5 %	5 %	ISO 527
Flexural Modulus	830,000 psi	5,770 MPa	ISO 178
Flex Strength	11,500 psi	79 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 23 °C	-	-	ISO 179
Charpy Unnotched Impact Strength 23°C	-	-	ISO 179
Notched Izod Impact Strength 23°C	0.9 ft-lb/in	5 kJ/m ²	ISO 180

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75
0.45 MPa Unannealed	311 °F	155 °C	
1.8 MPa Unannealed	295 °F	146 °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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