



PoliXL™ PPHGF20BK

PPH, 20% Fiberglass Reinforced, Black, Heat Stabilized

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.04 g/cc	1.04 g/cc	D792
Mold Shrinkage Parallel: 23 °C Perpendicular: 23°C	0.25 % - 0.45 % 0.8 % - 1 %	0.25 % - 0.45 % 0.8 % - 1 %	D955
Melt Flow Rate (2.16kg, 230 °C)	10 g/10min	10 g/10min	D1238
Ash (Glass-fiber)	20 %	20 %	D2584

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Break)	10,500 psi	72 MPa	ISO 527
Tensile Strain (Break)	5 %	5 %	ISO 527
Flexural Modulus	630,000 psi	4,340 MPa	ISO 178
Flex Strength	12,500 psi	86 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	1.4 ft-lb/in	7.5 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	300 °F 293 °F	149 °C 145 °C	ISO 75
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



Legal Disclaimer

The information presented here is accurate and reliable. Because conditions of use are beyond our control, we make no warranties, expressed or implied and specifically exclude any and all warranties of merchantability and fitness for a particular purpose. Our products are sold with the express understanding that our customers will conduct their own tests to determine the suitability of the material for their particular use. Nothing herein shall be construed as permission or recommendation to practice a patented invention without a license. The sole liability for Niche Polymer for any claims arising out of the manufacturer, use or sale of its products shall be for our customers purchase price or material replacement.

