PolyOne OnForce™ LFT NN-60LGF/000 HS UV Black Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

PolyOne's Long Fiber Thermoplastic (LFT) compounds are formulated for demanding applications which require high stiffness and good impact such as metal replacement or other structural applications. These products exhibit enhanced physical and mechanical properties versus standard short fiber products. Benefits of LFT compounds include improved impact strength, elastic modulus, and material strength across wide temperature ranges from subambient to highly elevated. Furthermore, LFT compounds have been shown to offer improved performance in the areas of creep and fatigue performance, improved dimensional stability, and exhibit an exceptional surface finish when compared to traditional highly filled short fiber products.LFT compounds can be processed using equipment similar to that used for short fiber products. The mechanical properties of finished parts depend greatly on the length of the fibers in the molded part; therefore processing conditions must be set carefully in order to minimize fiber breakage. A low shear process is advised, with low back pressure, low screw speed and low-to-medium injection speed.Information provided by PolyOne

Order this product through the following link:
http://www.lookpolymers.com/polymer_PolyOne-OnForce-LFT-NN-60LGF000-HS-UV-Black-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Measured on a tensile specimen.; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	250 MPa	36300 psi	ISO 527-2
	154 MPa @Temperature 100 °C	22300 psi @Temperature 212 °F	ISO 527-2
	261 MPa @Temperature -40.0 °C	37900 psi @Temperature -40.0 °F	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
	1.4 % @Temperature -40.0 °C	1.4 % @Temperature -40.0 °F	ISO 527-2
	1.9 % @Temperature 100 °C	1.9 % @Temperature 212 °F	ISO 527-2
Tensile Modulus	18.0 GPa	2610 ksi	ISO 527-2
Flexural Strength	350 MPa	50800 psi	ISO 178
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	8.00 J/cm²	38.1 ft-lb/in²	ISO 179
Charpy Impact, Notched	2.00 J/cm²	9.52 ft-lb/in²	ISO 179
Gardner Impact	15.6 J	11.5 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	Unannealed; ISO 75-2/A
Deflection Temperature at 8.0 MPa	241 °C	466 °F	Unannealed; ISO 75-2/C

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 320 °C	554 - 608 °F	
Mold Temperature	90.0 °C	194 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	
Back Pressure	1.00 MPa	145 psi	

Descriptive Properties	Value	Comments
Features	Good UV Resistance	
	Heat Stabilized	
Filler / Reinforcement	Long Glass Fiber, 60% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Injection Rate	Slow-Moderate	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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