

Techmer ES HiFill[®] PA6/6 LGF50 HS L BK 12 mm

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Long Glass Fiber
Additive: Lubricant and Heat Stabilizer
Features: Lubricated, Heat Stabilized and Good Moldability
UL File Number: E157318
Appearance: Black
Processing Method: Injection Molding
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-LGF50-HS-L-BK-12-mm.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Water Absorption	0.35 %	0.35 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	252 MPa	36500 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Strength	407 MPa	59000 psi	ASTM D790
Flexural Modulus	15.9 GPa	2300 ksi	ASTM D790
Izod Impact, Notched	2.94 J/cm	5.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	9.10 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	238 $\text{Å}^\circ\text{C}$	460 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Surface Resistance	1.01×10^{11} ohm	1.01×10^{11} ohm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

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