

Techmer ES HiFill FR® PA6/6 GF15 FR BK 15% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber, 15% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Flame Retardant, Lubricated and Heat Stabilized
Appearance: Black
TPCI# 8152101
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA66-GF15-FR-BK-15-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Water Absorption	0.75 %	0.75 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	95.1 MPa	13800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	4.96 GPa	720 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 µm/m-°C	32.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	224 °C	435 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

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

Surface Resistance Electrical Properties	1.00e+11 ohm Metric	1.00e+11 ohm English	ASTM D257 Comments
Dielectric Strength	18.9 kV/mm	480 kV/in	Method A (Short-Time); ASTM D149

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