

Techmer ES HiFill FR® PA6 GF20 FR HS L 20% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled , Nylon 6 , Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Flame Retardant, Heat Stabilized and Lubricated
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA6-GF20-FR-HS-L-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Water Absorption	0.92 % @Time 86400 sec	0.92 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	117 MPa	17000 psi	ASTM D638
Elongation at Break	4.2 %	4.2 %	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm @Thickness 3.17 mm	2.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 µm/m-°C	20.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	420 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257

Dielectric Strength Electrical Properties	15.7 kV/mm Metric	400 kV/in English	Method A (Short-Time); ASTM D149 Comments
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