

Techmer ES HiFill® PA6 GF/M30 HS BK 10/20% Glass/Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced , Nylon 6 , Heat Stabilized

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Glass Fiber Reinforcement, 10% Filler by Weight and Mineral, 20% Filler by WeightAdditive: Heat Stabilizer and LubricantFeatures: Heat Stabilized and LubricatedAppearance: BlackTPCI# 7151102Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GFM30-HS-BK-1020-GlassMineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.17 mm	0.010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	5.03 GPa	730 ksi	ASTM D790
Izod Impact, Notched	0.187 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	0.350 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	0.427 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	0.800 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 µm/m-°C	17.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	15.7 kV/mm	400 kV/in	Method A (Short-Time); ASTM D149

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