Techmer ES HiFillÂ® PA6/6 GF/M40 ML2 GY 40% Glass/Mineral Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass/Mineral Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Glass Fiber Reinforcement, 40% Filler by Weight and Mineral Filler, 40% Filler by WeightAdditive: Molybdenum Disulfide Lubricant and Heat StabilizerFeatures: Lubricated and Heat StabilizedAppearance: GrayInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-GFM40-ML2-GY-40-GlassMineral-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/inÂ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm @Thickness 3.17 mm	0.0035 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	152 MPa	22000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	221 MPa	32000 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.17 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	9.08 J/cm @Thickness 3.17 mm	17.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Âµm/m-Â°C	21.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	246 Â°C	475 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	232 Â°C	450 Â°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+14 ohm-cm	8.00e+14 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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