Techmer ES HiFillÂ® PA6/6 CM40 40% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled , Nylon 66, Heat Stabilized

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Mineral Filler, 40% Filler by WeightAdditive: Heat Stabilizer and LubricantFeatures: Heat Stabilized and LubricatedAppearance: Natural ColorProcessing Method: Injection MoldingInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA66-CM40-40-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/inÂ³	ASTM D792
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.17 mm	0.0080 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	93.8 MPa	13600 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Thickness 3.17 mm	0.600 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.20 Âµm/m-Â°C	4.00 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	249 Â°C	480 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 Â°C	420 Â°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	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

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