

Techmer ES HiFill® PA6 GF/M40 L 40% Glass/Mineral Filled

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

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass/Mineral, 40% Filler by Weight
Additive: Lubricant
Features: Lubricated
Processing Method: Injection Molding
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GFM40-L-40-GlassMineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	123 MPa	17800 psi	ASTM D638
Elongation at Break	3.9 %	3.9 %	ASTM D638
Flexural Strength	221 MPa	32000 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	7.47 J/cm @Thickness 3.17 mm	14.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	210 Å°C	410 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	202 Å°C	395 Å°F	Unannealed; ASTM D648

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

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