

Techmer ES HiFill® PA12 GF50 L 50% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 50% Glass Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 50% Filler by Weight Additive: Lubricant Features: Lubricated Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA12-GF50-L-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	170 MPa	24600 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	253 MPa	36700 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	1.55 J/cm @Thickness 3.17 mm	2.90 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.4 Åµm/m-Å°C	8.00 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	181 Å°C	358 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	166 Å°C	330 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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