

Techmer ES HiFill[®] PA12 GF30 HS L 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, 30% Glass Fiber Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 30% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Heat Stabilized and Lubricated
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA12-GF30-HS-L-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @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
Tensile Strength, Yield	108 MPa	15600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	150 MPa	21700 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 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	41.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	138 $\text{Å}^\circ\text{C}$	280 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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