

Techmer ES HiFill FR[®] PA6 GF13 FR-N IM BK 13% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled , Nylon 6, Heat Stabilized , Nylon 6, Impact Grade

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Glass Fiber Reinforcement, 13% Filler by WeightAdditive: Heat Stabilize, Impact Modifier and LubricantFeatures: Flame Retardant, Heat Stabilized, Impact Modified and LubricatedRoHS Compliance: RoHS CompliantAppearance: BlackInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PA6-GF13-FR-N-IM-BK-13-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	1.0 %	1.0 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Åµm/m-Å°C	21.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	204 Å°C	400 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	185 Å°C	365 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+15 ohm-cm Metric	1.00e+15 ohm-cm English	ASTM D257 Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China