

Techmer ES HiFill FR[®] PBT GF30 FR-S AS 30% Glass Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber, 30% Filler by Weight Additive: Antistatic Features: Flame Retardant, Antistatic and Non-Blooming 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-FR-PBT-GF30-FR-S-AS-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	108 MPa	15700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	165 MPa	24000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	193 $\text{Å}^\circ\text{C}$	380 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 - 1.00e+11 ohm-cm	1.00e+8 - 1.00e+11 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.3 kV/mm	490 kV/in	Method A (Short-Time); ASTM D149

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