

Techmer ES HiFill® PES GF40 40% Glass Filled

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 40%Glass Fiber Filled

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Glass Fiber Reinforcement, 40% Filler by WeightAppearance:

WhiteInformation provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PES-GF40-40-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	152 MPa	22000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	205 MPa	29800 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.4 Åµm/m-Å°C	13.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	3.00e+16 ohm-cm Metric	3.00e+16 ohm-cm English	ASTM D257 Comments
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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