

Techmer ES HiFill® PET GF/M40 BK 40% Glass/Mineral Fiber Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass/Mineral, 40% Filler by Weight Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PET-GFM40-BK-40-GlassMineral-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	124 MPa	18000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 $\mu\text{m/m-}^\circ\text{C}$	33.0 $\mu\text{in/in-}^\circ\text{F}$	ASTM D696
Melting Point	254 $^\circ\text{C}$	489 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	213 $^\circ\text{C}$	415 $^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	19.7 kV/mm	500 kV/in	Method A (Short-Time); ASTM D149

Electrical Properties

Metric

English

Comments

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