

Techmer ES HiFill[®] PET GF20 UV BK 20% Glass Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 20% Glass Reinforced

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight Additive: UV

Stabilizer Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PET-GF20-UV-BK-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	114 MPa	16500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.908 J/cm @Thickness 3.17 mm	1.70 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	91.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	51.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	246 $\text{Å}^\circ\text{C}$	475 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	224 $\text{Å}^\circ\text{C}$	435 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

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