

Techmer ES HiFill[®] PC GF20 20% Glass Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight
Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.11 % @Time 86400 sec	0.11 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm @Thickness 3.17 mm	0.0035 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Yield	107 MPa	15500 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 3.17 mm	3.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	152 $\text{Å}^\circ\text{C}$	306 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 $\text{Å}^\circ\text{C}$	300 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+16 ohm-cm	2.00e+16 ohm-cm	ASTM D257

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