

Techmer ES HiFill[®] PC GF20 X 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 Additive: Mold

Release Features: Good Mold Release and High Flow Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @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	110 MPa	15900 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	165 MPa	24000 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	1.82 J/cm @Thickness 3.17 mm	3.40 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-1	V-1	

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

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