

Techmer ES HiFill[®] PP GB20 20% Glass Beads Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Glass Bead Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Bead, 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-PP-GB20-20-Glass-Beads-Filled.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.020 cm/cm @Thickness 3.17 mm	0.020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	26.2 MPa	3800 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Yield Strength	33.8 MPa	4900 psi	ASTM D790
Flexural Modulus	1.59 GPa	230 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Thickness 3.17 mm	0.600 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	170 $\text{Å}^\circ\text{C}$	338 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	113 $\text{Å}^\circ\text{C}$	235 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.8 $\text{Å}^\circ\text{C}$	145 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

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