

Techmer ES HiFill® PP GB40 40% Glass Beads Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Bead, 40% 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-GB40-40-Glass-Beads-Filled.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.030 % @Time 86400 sec	0.030 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.011 cm/cm @Thickness 3.17 mm	0.011 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ASTM D785
Tensile Strength, Yield	20.7 MPa	3000 psi	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Flexural Yield Strength	31.0 MPa	4500 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 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	63.0 Åµm/m-Å°C	35.0 Åµin/in-Å°F	ASTM D696
Melting Point	170 Å°C	338 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	118 Å°C	245 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.9 Å°C	165 Å°F	Unannealed; ASTM D648

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

Electrical Properties	Metric//mm	EnglishIn	CommentsShort-Time); ASTM D149
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