

Techmer ES HiFill® PP E GF40 CC 40% Glass Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 40% Filler by Weight Additive: Heat Stabilizer Features: Chemically Coupled, Heat Stabilized and High Viscosity Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PP-E-GF40-CC-40-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	121 MPa	17500 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.17 mm	2.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 µm/m-°C	15.0 µin/in-°F	ASTM D696
Melting Point	163 °C	325 °F	
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	154 °C	310 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+16 ohm-cm	3.00e+16 ohm-cm	ASTM D257
Dielectric Strength	20.5 kV/mm	520 kV/in	Method A (Short-Time); ASTM D149

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