

Techmer ES HiFill® PP GF15 CC 15% Glass Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight
Features: Chemically Coupled
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PP-GF15-CC-15-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ASTM D792
Water Absorption	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0055 cm/cm @Thickness 3.17 mm	0.0055 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Yield	4.7 %	4.7 %	ASTM D638
Flexural Yield Strength	97.2 MPa	14100 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.17 mm	1.60 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm @Thickness 3.17 mm	11.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ASTM D696
Melting Point	163 Å°C	325 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	160 Å°C	320 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	152 Å°C	305 Å°F	Unannealed; ASTM D648

Flammability UL 94 Thermal Properties	HB Metric	HB English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Strength	20.9 kV/mm	530 kV/in	Method A (Short-Time); ASTM D149

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