

Techmer ES HiFill® PP CO GF15 CC 15% Glass Filled

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

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 15% Filler by Weight Features:

Copolymer Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	2.96 GPa	430 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.17 mm	2.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Åm/m-Å°C	21.0 Åin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	152 Å°C	305 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Å°C	285 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

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