

Techmer ES HiFill® HDPE GF10 CC 10% Glass Filled

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Glass fiber Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass Fiber Reinforcement, 10% 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-HDPE-GF10-CC-10-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @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
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	1.59 GPa	230 ksi	ASTM D790
Izod Impact, Notched	1.01 J/cm @Thickness 3.17 mm	1.90 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	11.8 kV/mm	300 kV/in	Method A (Short-Time); ASTM D149

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