

Techmer ES HiFill® TPU GF30 30% Glass Filled

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Glass Filled

Material Notes:

Availability: North America
 Forms: Pellets
 Filler/Reinforcement: Glass Fiber Reinforcement, 30% Filler by Weight
 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPU-GF30-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Water Absorption	0.25 % @Time 86400 sec	0.25 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	65	65	ASTM D785
Tensile Strength, Yield	56.5 MPa	8200 psi	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
Flexural Yield Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	1.31 GPa	190 ksi	ASTM D790
Izod Impact, Notched	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 µm/m-°C	25.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	171 °C	340 °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	15.7 kV/mm	400 kV/in	Method A (Short-Time); ASTM D149

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