

Techmer ES Statiblend[®] TPU G/CF40 40% Glass/Carbon Filled

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

Material Notes:

Availability: North America
 Forms: Pellets
 Filler/Reinforcement: Glass/Carbon Fiber, 40% Filler by Weight
 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Statiblend-TPU-GCF40-40-GlassCarbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Yield	15 %	15 %	ASTM D638
Flexural Yield Strength	95.1 MPa	13800 psi	ASTM D790
Flexural Modulus	2.65 GPa	385 ksi	ASTM D790
Izod Impact, Notched	5.07 J/cm @Thickness 3.17 mm	9.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	171 $\text{Å}^\circ\text{C}$	340 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	ASTM D257

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