

Techmer ES Electrafil® J-50/CF/40 Polycarbonate, 40% Carbon Fiber Reinforced, PTFE Lubricated

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon + PTFE Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-50CF40-Polycarbonate-40-Carbon-Fiber-Reinforced-PTFE-Lubricated.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.13 %	0.13 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm @Thickness 3.17 mm	0.00050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	193 MPa	28000 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Flexural Yield Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	19.3 GPa	2800 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 10.0 ohm-cm	1.00 - 10.0 ohm-cm	ASTM C611
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D257

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