

Techmer ES Electrafil[®] J-50/CF/30/TF/13/SI/2 Polycarbonate, 30% Carbon Fiber Reinforced, 13% PTFE, 2% Silicone

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-50CF30TF13SI2-Polycarbonate-30-Carbon-Fiber-Reinforced-13-PTFE-2-Silicone.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.12 %	0.12 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.010 cm/cm @Thickness 3.17 mm	0.010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	117 MPa	17000 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Flexural Yield Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.59 mm	V-1 @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10.0 - 100 ohm-cm	10.0 - 100 ohm-cm	ASTM C611
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D257

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