

Techmer ES Electrafil® PC-50/EC Polycarbonate, Conductive Carbon Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Conductive

Material Notes:

Conductive Carbon, Powder Modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-PC-50EC-Polycarbonate-Conductive-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hrs; ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	58.6 MPa	8500 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 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
Izod Impact, Unnotched	10.7 J/cm @Thickness 3.17 mm	20.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	121 Â°C	250 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D4496
Static Decay	0.050 sec	0.050 sec	

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