

Techmer ES Electrablend® PC SS15 15% Stainless Steel Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Stainless Steel Fiber

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Stainless Steel Fiber, 15% Filler by Weight Features: Electromagnetic Shielding (EMI) Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PC-SS15-15-Stainless-Steel-Filled.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	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, Yield	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.2 J/cm @Thickness 3.17 mm	21.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.6 µm/m-°C	32.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	146 °C	295 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257
Shielding Effectiveness	55 dB @Frequency 3.00e+7 - 1.00e+9 Hz	55 dB @Frequency 3.00e+7 - 1.00e+9 Hz	ASTM D149

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