

Techmer ES Electrablend® PC 05004 FR Stainless Steel Filled

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PC-05004-FR-Stainless-Steel-Filled.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	4.3 %	4.3 %	ASTM D638
Flexural Strength	105 MPa	15300 psi	ASTM D790
Flexural Modulus	2.68 GPa	388 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	4.43 J/cm	8.30 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 1000 ohm-cm	1.0 - 1000 ohm-cm	ASTM D257
Surface Resistance	1.0 - 1000 ohm	1.0 - 1000 ohm	ASTM D257

Electrical Properties	Metric	English	Comments
Static Decay	≤ 0.10 sec	≤ 0.10 sec	FTMS 1018
Shielding Effectiveness	55 dB	55 dB	ASTM D4935

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