

Techmer ES Electrablend® PC 04006 FR BK Stainless Steel Filled

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

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Stainless Steel FiberFeatures: Electromagnetic Shielding (EMI) and Flame RetardantAppearance: BlackInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PC-04006-FR-BK-Stainless-Steel-Filled.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in³	ASTM D792
Water Absorption	0.12 %	0.12 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	69.6 MPa	10100 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	104 MPa	15100 psi	ASTM D790
Flexural Modulus	3.59 GPa	520 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	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 µm/m-°C	18.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	143 °C	290 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.0 - 1000 ohm-cm Metric	1.0 - 1000 ohm-cm English	ASTM D257 Comments
Surface Resistance	1.0 - 1000 ohm	1.0 - 1000 ohm	ASTM D257
Static Decay	<= 0.10 sec	<= 0.10 sec	FTMS 101B
Shielding Effectiveness	50 dB	50 dB	ASTM D4935

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