

Techmer ES Electrablend® PC 04008 FR BK 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 Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PC-04008-FR-BK-Stainless-Steel-Filled.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0035 cm/cm @Thickness 3.17 mm	0.0035 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	74.5 MPa	10800 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	114 MPa	16500 psi	ASTM D790
Flexural Modulus	3.93 GPa	570 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
CTE, linear, Parallel to Flow	32.4 Åm/m-Å°C	18.0 Åin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	146 Å°C	295 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Å°C	285 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	10 - 1000 ohm-cm Metric	10 - 1000 ohm-cm English	ASTM D257 Comments
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257
Static Decay	<= 0.10 sec	<= 0.10 sec	FTMS 101B
Shielding Effectiveness	45 dB	45 dB	ASTM D4935

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