Techmer ES ElectrablendÂ® ABS SS5 FR 5% Stainless Steel Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Stainless Steel Fiber Filled

Material Notes:

Availability: North AmericaForms: PelletsFiller/Reinforcement: Stainless Steel Fiber, 5% Filler by WeightFeatures: Electromagnetic Shielding (EMI) and Flame RetardantInformation provided by TP Composites, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-ABS-SS5-FR-5-Stainless-Steel-Filled.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/inÂ³	ASTM D792
Water Absorption	0.28 % @Time 86400 sec	0.28 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Thickness 3.17 mm	0.900 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	2.40 J/cm @Thickness 3.17 mm	4.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.6 Âµm/m-Â°C	47.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	102 Â°C	215 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.1 Â°C	205 Â°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 10 ohm-cm	1.0 - 10 ohm-cm	ASTM D257
Surface Resistance	10000 - 1.00e+6 ohm	10000 - 1.00e+6 ohm	ASTM D257
Shielding Effectiveness	20 dB @Frequency 3.00e+7 - 1.00e+9 Hz	20 dB @Frequency 3.00e+7 - 1.00e+9 Hz	ASTM D149

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