

Techmer ES Electrablend® PA6 04001 BK MB Glass/Stainless Steel Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% Glass Fiber Filled , Nylon 6 , Stainless Steel Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass/Stainless Steel Fiber Additive: Lubricated Features: Electromagnetic Shielding (EMI), Lubricated and Radio Frequency Shielding (RFI) Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA6-04001-BK-MB-GlassStainless-Steel-Filled.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	138 MPa	20000 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.17 mm	1.60 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 Åµm/m-Å°C	30.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 10 ohm-cm	1.0 - 10 ohm-cm	ASTM D257
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

Static Decay Electrical Properties	≤ 2.0 sec Metric	≤ 2.0 sec English	FTMS 1018 Comments
Shielding Effectiveness	50 dB	50 dB	ASTM D4935

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