

Techmer ES Electrablend® PCA 06006 BK Nickel-Coated Carbon Fiber/Stainless Steel Fiber Filled

Category : Polymer , Thermoplastic , ABS Polymer , PC/ABS + Stainless Steel , Polycarbonate (PC)

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Nickel-Coated Carbon Fiber and Stainless Steel Fiber Features: Electromagnetic Shielding (EMI) Appearance: Black TPCI# 9691124 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PCA-06006-BK-Nickel-Coated-Carbon-Fiber-Stainless-Steel-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0010 cm/cm @Thickness 3.17 mm	0.0010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	134 MPa	19500 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.6 µm/m-°C	27.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	116 °C	240 °F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

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	65 - 68 dB	65 - 68 dB	ASTM D4935

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China