

Techmer ES Electrablend® PA6 CF20 BK 20% Carbon Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Carbon Fiber Filled , Nylon 6 , Heat Stabilized

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Carbon Fiber Reinforcement, 20% Filler by Weight
Additive: Heat Stabilizer and Lubricant
Features: Conductive, Heat Stabilized and Lubricated
Appearance: Black
TPCI# 9738102
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrablend-PA6-CF20-BK-20-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	186 MPa	27000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 µm/m-°C	11.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	420 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	400 °F	Unannealed; ASTM D648

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

Surface Resistance Electrical Properties	1.0 - 1000 ohm Metric	1.0 - 1000 ohm English	ASTM D257 Comments
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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