

## Techmer ES Electrafil<sup>®</sup> J-3/CF/30 Nylon 6, 30% Carbon Fiber Reinforced

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

Material Notes:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Electrafil-J-3CF30-Nylon-6-30-Carbon-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-3CF30-Nylon-6-30-Carbon-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.0 %	1.0 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm @Thickness 3.17 mm	0.0010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	228 MPa	33000 psi	ASTM D638
Elongation at Break	3.3 %	3.3 %	ASTM D638
Tensile Modulus	19.3 GPa	2800 ksi	ASTM D638
Flexural Yield Strength	317 MPa	46000 psi	ASTM D790
Flexural Modulus	17.2 GPa	2500 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	8.01 J/cm @Thickness 3.17 mm	15.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 10.0 ohm-cm	1.00 - 10.0 ohm-cm	ASTM C611
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D4496

## **Contact Songhan Plastic Technology Co.,Ltd.**

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