

Techmer ES Electrafil[®] J-1/CF/30 Nylon 66, 30% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Carbon Fiber Reinforced

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-1CF30-Nylon-66-30-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	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	248 MPa	36000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Modulus of Elasticity	20.7 GPa	3000 ksi	ASTM D638
Flexural Yield Strength	352 MPa	51000 psi	ASTM D790
Flexural Modulus	18.6 GPa	2700 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.94 J/cm @Thickness 3.17 mm	13.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	14.4 Åµm/m-Å°C @Temperature 20.0 Å°C	8.00 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	263 Å°C	505 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 Å°C	489 Å°F	ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	1.00 - 10.0 ohm-cm Metric	1.00 - 10.0 ohm-cm English	ASTM C611 Comments
Surface Resistance	100 - 1000 ohm	100 - 1000 ohm	ASTM D4496
Shielding Effectiveness	20 - 30 dB	20 - 30 dB	1000 MHz; ES7-83

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