

Techmer ES Electrafil® J-1/CF/20 Nylon 66, 20% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Carbon Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-1CF20-Nylon-66-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	1.0 %	1.0 %	24 hrs. ASTM D570
Linear Mold Shrinkage	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 E	67	67	ASTM D785
Tensile Strength, Ultimate	193 MPa	28000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	13.8 GPa	2000 ksi	ASTM D638
Flexural Yield Strength	290 MPa	42000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Compressive Strength	172 MPa	25000 psi	ASTM D695
Shear Strength	82.7 MPa	12000 psi	ASTM D732
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm	1.30 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm @Thickness 3.17 mm	10.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Åµm/m-Å°C @Temperature 20.0 Å°C	10.0 Åµin/in-Å°F @Temperature 68.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	260 Å°C	500 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	254 Å°C Metric	490 Å°F English	ASTM D648 Comments
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	10.0 - 100 ohm-cm	10.0 - 100 ohm-cm	ASTM C611
Surface Resistance	1000 - 10000 ohm	1000 - 10000 ohm	ASTM D4496

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