

Techmer ES Electrafil[®] J-1/CF/40 BK PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Carbon Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Electrafil-J-1CF40-BK-PA66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	24 Hrs; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	276 MPa	40000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Strength	407 MPa	59000 psi	ASTM D790
Flexural Modulus	23.4 GPa	3400 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	14.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	257 $\text{Å}^\circ\text{C}$	495 $\text{Å}^\circ\text{F}$	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 10 ohm-cm	1.0 - 10 ohm-cm	ASTM D648
Surface Resistivity per Square	10 - 100 ohm	10 - 100 ohm	ASTM D648

Descriptive Properties	Value	Comments
Shielding @ 1 GHz	30-40 db	ES7-83

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