

Techmer ES HiFill[®] PEEK CF30 HF 30% Carbon Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Carbon Fiber Reinforcement, 30% Filler by Weight
Features: High Flow
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PEEK-CF30-HF-30-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.14 %	0.14 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	214 MPa	31000 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	248 MPa	36000 psi	ASTM D790
Flexural Modulus	15.9 GPa	2300 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	288 $\text{Å}^\circ\text{C}$	550 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	ASTM D257

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