

Techmer ES HiFill[®] PEI HF BK

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Availability: North America Forms: Pellets Features: High Flow Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PEI-HF-BK.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Elongation at Break	7.0 %	7.0 %	ASTM D638
Flexural Strength	172 MPa	25000 psi	ASTM D790
Flexural Modulus	3.52 GPa	510 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	12.8 J/cm	24.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	30.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	214 $\text{Å}^\circ\text{C}$	418 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 $\text{Å}^\circ\text{C}$	388 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Electrical Properties	Metric /mm	English in	Comments
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