

Techmer ES HiFill® PEI BK

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

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

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	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	109	109	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 Åµm/m-Å°C	30.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	214 Å°C	418 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 Å°C	388 Å°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	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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