

Techmer ES HiFill® PPS 0231 B LE

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Availability: North America Forms: Pellets Features: High Density and Low Extractables Appearance: Opaque Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PPS-0231-B-LE.php

Physical Properties	Metric	English	Comments
Density	2.31 g/cc	0.0835 lb/in ³	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	131 MPa	19000 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 Âµm/m-Â°C	9.00 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	280 Â°C	536 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	266 Â°C	510 Â°F	Unannealed; ASTM D648
UL RTI, Electrical	220 Â°C @Thickness 1.50 mm	428 Â°F @Thickness 0.0591 in	UL 746
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	20.9 kV/mm	530 kV/in	Method A (Short-Time); ASTM D149

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