

Techmer ES HiFill® PPS 0237 A

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PPS-0237-A.php

Physical Properties	Metric	English	Comments
Density	2.37 g/cc	0.0856 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	103 MPa	15000 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.2 Åµm/m-Å°C	9.00 Åµin/in-Å°F	ASTM D696
Thermal Conductivity	1.73 W/m-K	12.0 BTU-in/hr-ftÅ²-Å°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	280 Å°C	536 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	266 Å°C	510 Å°F	Unannealed; ASTM D648
UL RTI, Electrical	220 Å°C @Thickness 1.50 mm	428 Å°F @Thickness 0.0591 in	UL 746
Flammability, UL94	V-0	V-0	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 - 1.00e+6 ohm-cm	10000 - 1.00e+6 ohm-cm	ASTM D257

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