

PolyOne Therma-Tech™ SFC-5000 TC Polyphenylene Sulfide (PPS) (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Therma-Tech™ Thermal Management Compounds have been engineered to combine the heat transfer and cooling capabilities of metals with the design freedom, weight reduction and cost advantages of thermoplastics. These materials provide the benefits of proprietary conductive additive technologies and the performance of select engineering thermoplastic resins. Therma-Tech compounds have been shown to improve thermal conductivity up to 100-times that of conventional plastics and can be used in a wide range of thermal management applications. Description/Features: PPS (Polyphenylenesulfide) Thermally Conductive Electrically Conductive Applications: Enclosures Heat Sinks Motor components Processing Method: Injection Molding Information provided by PolyOne Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Therma-Tech-SFC-5000-TC-Polyphenylene-Sulfide-PPS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 g/cc	1.70 g/cc	ASTM D792
Water Absorption	0.030 % @Thickness 3.17 mm	0.030 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9000 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	0.30 %	0.30 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	22.1 GPa	3200 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	19.3 GPa	2800 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	0.500 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.00 - 2.00 W/m-K	6.94 - 13.9 BTU-in/hr- ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	277 °C	530 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1000 ohm-cm	100 - 1000 ohm-cm	ASTM D257
Surface Resistivity per Square	10 - 100 ohm	10 - 100 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 329 °C	600 - 625 °F	Molding
Mold Temperature	121 - 149 °C	250 - 300 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China