

PolyOne Therma-Tech™ ES-5500C TC-EM Polyethersulfone (discontinued **)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

Description/Features:Thermally ConductiveCeramic FilledPolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Therma-Tech-ES-5500C-TC-EM-Polyethersulfone-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 g/cc	ASTM D792
Water Absorption	0.10 % @Thickness 0.508 mm	0.10 % @Thickness 0.0200 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0039 cm/cm	0.0039 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	56.5 MPa	8190 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	0.45 %	0.45 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	26.3 GPa	3810 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	81.43 MPa	11810 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Poissons Ratio	0.24	0.24	ASTM E132
Shear Modulus	10.6 GPa	1540 ksi	Calculated
Izod Impact, Notched	0.214 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	0.400 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	>= 5.99 W/m-K	>= 41.6 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.6 ohm-cm	6.6 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant			ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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