

E-Polymers SEPAZ® K140HF 40% Glass Fiber Reinforced Low Flash, High Flow PPS Resin

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Polyphenylene Sulfide Resin: High-performance engineering plastic SEPAZ PPS boasts excellent high-temperature resistance, flame retardancy and chemical resistance, physical strength, and its fluidity leads to good dimensional precision. SEPAZ PPS applications: switches, connectors and other electronic and electric components, alternators and other automobile components, and office equipment components including chassis parts and housings. Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-SEPAZ-K140HF-40-Glass-Fiber-Reinforced-Low-Flash-High-Flow-PPS-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.67 g/cc	1.67 g/cc	ASTM D792
Water Absorption	0.020 %	0.020 %	
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	181.5 MPa	26320 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Flexural Strength	269.78 MPa	39128 psi	ASTM D790
Flexural Modulus	13.7 GPa	1990 ksi	ASTM D790
Izod Impact, Notched	0.883 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 $\mu\text{m}/\text{m}\cdot\text{C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM D696
	@Thickness 1.60 mm	@Thickness 0.0630 in	
CTE, linear, Transverse to Flow	32.0 $\mu\text{m}/\text{m}\cdot\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot\text{F}$	ASTM D696
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Melting Point	278 $^{\circ}\text{C}$	532 $^{\circ}\text{F}$	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	266 $^{\circ}\text{C}$	511 $^{\circ}\text{F}$	ASTM D648

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	19.0 kV/mm @Thickness 1.60 mm	483 kV/in @Thickness 0.0630 in	ASTM D149
Dissipation Factor	0.0020 @Frequency 1.00e+6 Hz	0.0020 @Frequency 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	300 - 330 °C	572 - 626 °F	
Mold Temperature	130 - 160 °C	266 - 320 °F	
Drying Temperature	140 °C	284 °F	
Dry Time	6 hour	6 hour	

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