

E-Polymers SEPAZ® K130HF 30% Glass Fiber Reinforced High Flow PPS Resin

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% 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-K130HF-30-Glass-Fiber-Reinforced-High-Flow-PPS-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	155.0 MPa	22480 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	205.03 MPa	29737 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	0.883 J/cm	1.65 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	29.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Thickness 1.60 mm	16.1 $\mu\text{in/in-}^{\circ}\text{F}$ @Thickness 0.0630 in	ASTM D696
CTE, linear, Transverse to Flow	34.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Thickness 1.60 mm	18.9 $\mu\text{in/in-}^{\circ}\text{F}$ @Thickness 0.0630 in	ASTM D696
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, 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 Constant	3.8	3.8	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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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