

E-Polymers SEPAZ® K115HF 15% Glass Fiber Reinforced High Flow PPS Resin

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 20% 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-K115HF-15-Glass-Fiber-Reinforced-High-Flow-PPS-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	90.252 MPa	13090 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Flexural Strength	112.82 MPa	16363 psi	ASTM D790
Flexural Modulus	7.9461 GPa	1152.5 ksi	ASTM D790
Izod Impact, Notched	0.637 J/cm	1.19 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	278 °C	532 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	246 °C	475 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	14.2 kV/mm @Thickness 1.60 mm	361 kV/in @Thickness 0.0630 in	ASTM D149
Dissipation Factor	0.0010 @Frequency 1.00e+6 Hz	0.0010 @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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