

E-Polymers SEPAZ® K365GM 60% Glass Fiber/Calcium Carbonate Reinforced General Purpose PPS Resin

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

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-K365GM-60-Glass-FiberCalcium-Carbonate-Reinforced-General-Purpose-PPS-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.96 g/cc	1.96 g/cc	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	131.5 MPa	19070 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	189.33 MPa	27460 psi	ASTM D790
Flexural Modulus	18.84 GPa	2732 ksi	ASTM D790
Izod Impact, Notched	0.422 J/cm	0.790 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$ @Thickness 1.60 mm	10.0 $\mu\text{in}/\text{in}^{\circ}\text{F}$ @Thickness 0.0630 in	ASTM D696
CTE, linear, Transverse to Flow	31.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$ @Thickness 1.60 mm	17.2 $\mu\text{in}/\text{in}^{\circ}\text{F}$ @Thickness 0.0630 in	ASTM D696
Melting Point	280 $^{\circ}\text{C}$	536 $^{\circ}\text{F}$	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	266 $^{\circ}\text{C}$	511 $^{\circ}\text{F}$	ASTM D648

Thermal Properties	Metric	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	4.1	4.1	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	0.450 kV/mm	11.4 kV/in	ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.010	0.010	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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