

E-Polymers SEPAZ® C140GM 40% Glass Fiber/Mineral Reinforced LCP Resin

Category : Polymer , Thermoplastic , Liquid Crystal Polymer (LCP)

Material Notes:

Liquid Crystal Polymer Resin: SEPAZ LCP resin has a unique structure and performance unthought of in a traditional plastics. Beside SEPAZ LCP takes the excels in all-around performance and molding productivity. SEPAZ LCP has a unique attribute in that the thinner the product becomes, the greater the mechanical strength. SEPAZ LCP finds uses in connectors, sensors and other electronic components and CD pick-up parts, and in copying machine and fax components in office and audio-visual equipment. Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-SEPAZ-C140GM-40-Glass-FiberMineral-Reinforced-LCP-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	111.8 MPa	16220 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	163.83 MPa	23762 psi	ASTM D790
Flexural Modulus	13.2 GPa	1910 ksi	ASTM D790
Izod Impact, Notched	0.0686 J/cm	0.129 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	335 °C	635 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	269 °C	516 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	ASTM D257
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.023 @Frequency 1.00e+6 Hz	0.023 @Frequency 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	350 - 360 °C	662 - 680 °F	
Mold Temperature	40.0 - 150 °C	104 - 302 °F	

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