

## E-Polymers SEPAZ® C130M 30% Mineral Reinforced LCP Resin

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

### 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-C130M-30-Mineral-Reinforced-LCP-Resin.php](http://www.lookpolymers.com/polymer_E-Polymers-SEPAZ-C130M-30-Mineral-Reinforced-LCP-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.63 g/cc	1.63 g/cc	ASTM D792
Linear Mold Shrinkage	0.00 cm/cm	0.00 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	127.53 MPa	18497 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	127.53 MPa	18497 psi	ASTM D790
Flexural Modulus	9.6138 GPa	1394.4 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	8.00 $\mu\text{m}/\text{m}^{\circ}\text{C}$	4.44 $\mu\text{in}/\text{in}^{\circ}\text{F}$	ASTM D696
	@Thickness 1.60 mm	@Thickness 0.0630 in	
CTE, linear, Transverse to Flow	22.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	12.2 $\mu\text{in}/\text{in}^{\circ}\text{F}$	ASTM D696
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Melting Point	335 $^{\circ}\text{C}$	635 $^{\circ}\text{F}$	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	239 $^{\circ}\text{C}$	462 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13$ ohm-cm	$\geq 1.00\text{e}+13$ ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	26.0 kV/mm @Thickness 1.60 mm	660 kV/in @Thickness 0.0630 in	ASTM D149
Dissipation Factor	0.028 @Frequency 1.00e+6 Hz	0.028 @Frequency 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	350 - 360 °C	662 - 680 °F	
Mold Temperature	30.0 - 150 °C	86.0 - 302 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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