

E-Polymers SEPAZ® C245GP 45% Glass Fiber Reinforced LCP Resin

Category : Polymer , Thermoplastic , Liquid Crystal Polymer (LCP) , Liquid Crystal Polymer (LCP), 50% Glass Fiber 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-C245GP-45-Glass-Fiber-Reinforced-LCP-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	ASTM D792
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	135.4 MPa	19630 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
Flexural Strength	191.3 MPa	27750 psi	ASTM D790
Flexural Modulus	18.34 GPa	2661 ksi	ASTM D790
Izod Impact, Notched	0.588 J/cm	1.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	352 °C	666 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	295 °C	563 °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
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Constant	4.3 @Frequency 1.00e+6	4.3 @Frequency 1.00e+6	ASTM D150

Electrical Properties	Hz Metric	Hz English	Comments
Dielectric Strength	21.0 kV/mm @Thickness 1.60 mm	533 kV/in @Thickness 0.0630 in	ASTM D149
Dissipation Factor	0.025 @Frequency 1.00e+6 Hz	0.025 @Frequency 1.00e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 370 °C	680 - 698 °F	
Mold Temperature	30.0 - 160 °C	86.0 - 320 °F	

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