

Solvay Specialty Polymers Xydar® G-930 Liquid Crystal Polymer (LCP), 30% Glass Fiber

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

Material Notes:

Xydar® G-930 Liquid Crystal Polymer (LCP) is a glass reinforced injection molding grade developed specifically for electrical/electronic applications utilizing surface mount technology. The moldability of this resin is exceptional. Xydar® G-930 can fill very thin walls over long flow lengths with little or no flash, even at mold temperatures below 200°F (93°C). In addition, it has low warpage in molded products and exceptional weld line strength. Features: Flame Retardant; Good Chemical Resistance; Good Moldability; Good Weather Resistance; High Stiffness; High Strength; Low Warpage; Radiation (Gamma) Resistant Uses: Automotive Applications; Automotive Electronics; Bobbins; Electrical Parts; Electrical/Electronic Applications; Industrial Applications; Industrial Parts Automotive Specifications ASTM D5138 LCP0110 G30 B00000; DELPHI M-5282 M5282 Color: BK Black Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Xydar-G-930-Liquid-Crystal-Polymer-LCP-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Filler Content	30 %	30 %	Glass Fiber
Water Absorption	<= 0.10 % @Time 86400 sec	<= 0.10 % @Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength	135 MPa	19600 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Tensile Modulus	15.9 GPa	2310 ksi	ASTM D638
Flexural Strength	172 MPa	24900 psi	ASTM D790
Flexural Modulus	13.4 GPa	1940 ksi	ASTM D790
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.30 J/cm	8.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.60 - 7.20 Åµm/m-Å°C	2.00 - 4.00 Åµin/in-Å°F	
CTE, linear, Transverse to Flow	40.0 - 79.0 Åµm/m-Å°C	22.2 - 43.9 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	271 Å°C	520 Å°F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	@Thickness 0.750 mm	@Thickness 0.0295 in	
UL RTI, Mechanical with Impact	200 Å°C @Thickness 0.750 mm	392 Å°F @Thickness 0.0295 in	
UL RTI, Mechanical without Impact	220 Å°C @Thickness 0.750 mm	428 Å°F @Thickness 0.0295 in	
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.9	3.9	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	4.2	4.2	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149
	@Thickness 1.57 mm	@Thickness 0.0618 in	
Arc Resistance	>= 300 sec	>= 300 sec	ASTM D495
Comparative Tracking Index	185 V	185 V	ASTM D3638

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 360 Å°C	610 - 680 Å°F	
Mold Temperature	65.6 - 93.3 Å°C	150 - 200 Å°F	
Drying Temperature	149 Å°C	300 Å°F	
	@Time 21600 - 28800 sec	@Time 6.00 - 8.00 hour	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	

Clamp Tonnage Descriptive Properties	2.8 to 5.5 kN/cm² Value	Comments
Color	Black; Natural	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.5:1.0 to 3.0:1.0	
Screw L/D Ratio	20.0:1.0 to 24.0:1.0	

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