

## Solvay Specialty Polymers Xydar® MG-350 Liquid Crystal Polymer, Mineral and Glass Filled (discontinued \*\*)<

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

### Material Notes:

XYDAR MG-350 Liquid Crystal Polymer (LCP) is a mineral and glass-filled injection molding grade developed specifically for cost-effective performance in applications where a balance of flatness and strength are required. The moldability of this resin is exceptional. XYDAR MG-350 resin 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 good weld line strength. Like other XYDAR Liquid Crystal Polymers, this material temperatures), low coefficient of thermal expansion, high deflection temperature, inherent flame resistance, and outstanding resistance to most chemicals, weathering, and radiation. This resin is particularly well suited for many applications that have difficult-to-fill geometries, and require resistance to warp and strong weld lines. Potential applications for this resin include electronic connectors, burn-in sockets, automotive components, chemical processing and other mechanical devices. Information provided by Solvay Advanced Polymers. This grade was discontinued in 2006.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Xydar-MG-350-Liquid-Crystal-Polymer-Mineral-and-Glass-Filled-nbspdiscontinued-lt.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Xydar-MG-350-Liquid-Crystal-Polymer-Mineral-and-Glass-Filled-nbspdiscontinued-lt.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.84 g/cc	1.84 g/cc	ASTM D792
Water Absorption	<= 0.010 %	<= 0.010 %	24 hours; ASTM D570
Linear Mold Shrinkage, Flow	0.00070 cm/cm	0.00070 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0031 cm/cm	0.0031 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	90.3 MPa	13100 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
Tensile Modulus	16.1 GPa	2330 ksi	ASTM D638
Flexural Strength	160 MPa	23200 psi	ASTM D570
Flexural Modulus	15.0 GPa	2170 ksi	ASTM D570
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256
Izod Impact Unnotched	6.78 J	5.00 ft-lb	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.20 µm/m-°C	4.00 µin/in-°F	ASTM E831

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
CTE, linear, Transverse to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	278 °C	532 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+17 ohm-cm	1.80e+17 ohm-cm	ASTM D257
Surface Resistance	1.50e+16 ohm	1.50e+16 ohm	ASTM D257
Dielectric Constant	3.9	3.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.2	4.2	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	38.2 kV/mm	970 kV/in	ASTM D149
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Dissipation Factor	0.013	0.013	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.029	0.029	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 360 °C	610 - 680 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	149 °C	300 °F	
Dry Time	6 - 8 hour	6 - 8 hour	
Dew Point	-28.9 °C	-20.0 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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