

Solvay Specialty Polymers Xydar® M-345 Liquid Crystal Polymer, 45% Mineral Filled (discontinued **)

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

Material Notes:

XYDAR M-345 Liquid Crystal Polymer (LCP) is a 45% mineral-filled injection molding grade with exceptional moldability. XYDAR M-345 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. Like other XYDAR Liquid Crystal Polymers, this material exhibits good strength and stiffness (even at elevated 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 require resistance to warp, and compatibility with VPS/IR reflow environments. Potential applications for this resin include electrical/electronic connectors, surface mount interconnection devices, sockets, and PCMCIA card frames. Information provided by Solvay Advanced Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Xydar-M-345-Liquid-Crystal-Polymer-45-Mineral-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Tensile Modulus	12.1 GPa	1750 ksi	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D570
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D570
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Izod Impact Unnotched	14.9 J	11.0 ft-lb	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	229 °C	445 °F	ASTM D648

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	

Processing Properties	Metric ^{UR}	English ^{UR}	Comments
Dew Point	-28.9 °C	-20.0 °F	

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