

PolyOne Edgetek® LCP-30CF/000 Liquid Crystal Polymer - 30% Carbon Fiber (discontinued **)

Category : Polymer , Thermoplastic , Liquid Crystal Polymer (LCP) , Liquid Crystal Polymer (LCP), Carbon Fiber Filled

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-LCP-30CF000-Liquid-Crystal-Polymer-30-Carbon-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.035 %	0.035 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm @Thickness 3.17 mm	0.0010 - 0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	190 MPa	27600 psi	ASTM D638
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	ASTM D638
Tensile Modulus	27.6 GPa	4000 ksi	ASTM D638
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	27.6 GPa	4000 ksi	ASTM D790
Izod Impact, Notched	0.530 - 0.800 J/cm @Thickness 6.35 mm	0.993 - 1.50 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	249 °C	480 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	224 °C	435 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 100 ohm-cm	1.00 - 100 ohm-cm	ASTM D257
Surface Resistance	1.0 - 100 ohm	1.0 - 100 ohm	ASTM D257

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	288 - 316 °C Metric	550 - 601 °F English	Stock Comments
Mold Temperature	93.0 - 121 °C	199 - 250 °F	
Drying Temperature	149 - 163 °C	300 - 325 °F	

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