

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

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

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-LCP-30GF000-Liquid-Crystal-Polymer-30-Glass-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0020 cm/cm @Thickness 3.17 mm	0.0015 - 0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	159 MPa	23100 psi	ASTM D638
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	ASTM D638
Tensile Modulus	14.5 GPa	2100 ksi	ASTM D638
Flexural Yield Strength	214 MPa	31000 psi	ASTM D790
Flexural Modulus	13.1 GPa	1900 ksi	ASTM D790
Izod Impact, Notched	1.28 J/cm @Thickness 6.35 mm	2.40 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	243 °C	469 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 343 °C	601 - 649 °F	Stock
Mold Temperature	135 - 149 °C	275 - 300 °F	
Drying Temperature	135 - 149 °C	275 - 300 °F	

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