

PolyOne Edgetek® LCP-15GF/000 Liquid Crystal Polymer - 15% Fiber Glass (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-15GF000-Liquid-Crystal-Polymer-15-Fiber-Glass-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.020 - 0.040 %	0.020 - 0.040 %	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	13.1 GPa	1900 ksi	ASTM D638
Flexural Yield Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	1.60 - 2.94 J/cm @Thickness 6.35 mm	3.00 - 5.51 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	ASTM D648

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

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