

PolyOne Edgetek® NL-30CF/000 Nylon 6/12, Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Description/Features: Carbon Fiber Reinforced Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NL-30CF000-Nylon-612-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.21 % @Thickness 3.17 mm	0.21 % @Thickness 0.125 in	24 hr immersion; ASTM D570
Water Absorption at Saturation	1.75 % @Thickness 3.17 mm	1.75 % @Thickness 0.125 in	Long-Term Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93	93	ASTM D785
Tensile Strength, Ultimate	207 MPa	30000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	317 MPa	46000 psi	ASTM D790
Flexural Modulus	15.9 GPa	2300 ksi	ASTM D790
Compressive Strength	165 MPa	24000 psi	ASTM D695
Izod Impact, Notched	1.60 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	3.00 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	425 °F	Unannealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	420 °F	Unannealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties

Metric mm-cm

English mm-cm

Comments

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