

## PolyOne Edgetek® NL-20CF/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-20CF000-Nylon-612-Carbon-Fiber-Reinforced-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NL-20CF000-Nylon-612-Carbon-Fiber-Reinforced-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.24 % @Thickness 3.17 mm	0.24 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Water Absorption at Saturation	2.2 % @Thickness 3.17 mm	2.2 % @Thickness 0.125 in	Long-Term Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	179 MPa	26000 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	276 MPa	40000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Strength	145 MPa	21000 psi	ASTM D695
Izod Impact, Notched	1.07 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	2.00 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)	216 °C	420 °F	Unannealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	Unannealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	ASTM D257

## **Contact Songhan Plastic Technology Co.,Ltd.**

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