

PolyOne Edgetek® NI-30CF/000 Nylon 6/10 - 30% Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Carbon Fiber Filled

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NI-30CF000-Nylon-610-30-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm @Thickness 3.17 mm	0.0020 - 0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	193 MPa	28000 psi	ASTM D638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	ASTM D638
Flexural Yield Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Thickness 6.35 mm	2.49 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 µm/m-°C @Temperature 20.0 °C	9.00 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	218 °C	424 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	100 ohm-cm	100 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 559 °F	Stock
Mold Temperature	82.0 - 107 °C	180 - 225 °F	

Processing Properties	Metric	English	Comments
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