

PolyOne Edgetek® NI-40CF/000 Nylon 6/10 - 40% 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-40CF000-Nylon-610-40-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Water Absorption	0.18 %	0.18 %	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	221 MPa	32100 psi	ASTM D638
Elongation at Break	2.0 - 4.0 %	2.0 - 4.0 %	ASTM D638
Flexural Yield Strength	331 MPa	48000 psi	ASTM D790
Flexural Modulus	17.2 GPa	2490 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 6.35 mm	3.00 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	14.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	8.00 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	218 $^\circ\text{C}$	424 $^\circ\text{F}$	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00 - 50.0 ohm-cm	5.00 - 50.0 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 $^\circ\text{C}$	520 - 559 $^\circ\text{F}$	Stock
Mold Temperature	82.0 - 107 $^\circ\text{C}$	180 - 225 $^\circ\text{F}$	

Processing Properties	Metric	English	Comments
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