

PolyOne Edgetek® NI-40GF/000 Nylon 6/10 - 40% Glass Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NI-40GF000-Nylon-610-40-Glass-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	165 MPa	23900 psi	ASTM D638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	ASTM D638
Flexural Yield Strength	234 MPa	33900 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Yield Strength	160 MPa	23200 psi	ASTM D695
Shear Strength	79.0 MPa	11500 psi	ASTM D732
Izod Impact, Notched	1.87 J/cm @Thickness 6.35 mm	3.50 ft-lb/in @Thickness 0.250 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	25.2 µm/m-°C @Temperature 20.0 °C	14.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	221 °C	430 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric 15 ohm-cm	English 5 ohm-cm	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 559 °F	Stock
Mold Temperature	93.0 - 107 °C	199 - 225 °F	
Drying Temperature	82.0 °C	180 °F	

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