

PolyOne Edgetek® NL-43GF/000 Nylon 6/12, Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Description/Features: Glass Fiber Reinforced PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NL-43GF000-Nylon-612-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hr. 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	159 MPa	23000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	165 MPa	24000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	2.70 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)	223 °C	433 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	217 °C	423 °F	Annealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 560 °F	Molding
Mold Temperature	93.3 - 107 °C	200 - 225 °F	
Drying Temperature	82.2 - 93.3 °C	180 - 200 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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