

PolyOne Edgetek® NL-30GF/000 FR Nylon 6/12, Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Description/Features: Glass Fiber Reinforced Ignition Resistant UL 94 V0 PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NL-30GF000-FR-Nylon-612-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hr. Immersion; ASTM D570
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	124 MPa	18000 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
Tensile Modulus	6.89 GPa	1000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	Method A, Injection Molded; ASTM D256
	@Thickness 6.35 mm, Temperature 23.0 °C	@Thickness 0.250 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 µm/m-°C	18.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	400 °F	Unannealed, 0.125 in bars; ASTM D648
Flammability, UL94	V-0	V-0	All Colors; 0.062 in.; PolyOne Internal

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	232 - 260 °C	450 - 500 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	82.2 °C	180 °F	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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