

PolyOne Nymax™ GF 600 A 44 Black 13 Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

The Nymax® GF 600 Series of glass fiber-reinforced nylon 6 compounds have been specifically engineered for applications requiring high stiffness, tensile strength, and toughness, while providing enhanced surface appearance versus nylon 6/6 compounds. These materials are available in a broad range of reinforcement levels depending upon stiffness characteristics desired and have been formulated to offer ease of processing in most standard thermoplastic processing equipment. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-GF-600-A-44-Black-13-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	1.0 % @Thickness 3.18 mm	1.0 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	193 MPa	28000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
Flexural Modulus	11.4 GPa	1650 ksi	ASTM D790
Izod Impact, Notched	1.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.62 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	220 °C @Thickness 3.18 mm	428 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C @Thickness 3.18 mm	401 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 93.3 °C	120 - 200 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	General Purpose	
Filler / Reinforcement	Glass Fiber Reinforcement	
	Unspecified FillerReinfor., 44% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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