

PolyOne Nymax™ GF 1200 A 13 Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Nymax® GF 1200 Series of glass fiber-reinforced nylon 6/6 compounds have been specifically formulated for applications requiring high stiffness, tensile properties, heat resistance, and durability in harsh environments. 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-1200-A-13-Natural-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	1.0 % @Thickness 3.18 mm	1.0 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Relative Viscosity	53 cP	53 cP	Formic Acid; ASTM D789
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.7 %	2.7 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	4.90 GPa	711 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.899 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	250 °C @Thickness 3.18 mm	482 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	240 °C @Thickness 3.18 mm	464 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 107 °C	140 - 225 °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, 13% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
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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