

PolyOne Nymax™ GF 600 A 33 Natural 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-33-Natural-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	0.81 %	0.81 %	24h/23C; ISO 62
	1.0 %	1.0 %	@ 24 hrs; ASTM D570
	@Thickness 3.18 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	182 MPa	26400 psi	ISO 527
Tensile Strength, Yield	165 MPa	23900 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	12 %	12 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	241 MPa	35000 psi	ASTM D790
	242 MPa	35100 psi	ISO 178
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
	9.31 GPa	1350 ksi	ISO 178
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	Partial Break; ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Deflection Temperature at 1.8 MPa (264 psi)	202 °C	396 °F	Annealed; ISO 75-2/A
	206 °C	403 °F	
	@Thickness 3.18 mm	@Thickness 0.125 in	Annealed; 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	
Automotive Specifications	CHRYSLER MS-DB41 CPN2625 Color: 100% Color Match	
	CHRYSLER MS-DB41 CPN4338 Color: Non-matched Color	
Features	General Purpose	
Filler / Reinforcement	Glass Fiber Reinforcement, 33% 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	

Descriptive Properties	Industrial Applications Value	Comments
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