

PolyOne Nymax™ GMF 600 A 40 Natural Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

The Nymax® 600 Series of mineral-reinforced nylon 6 compounds have been specifically developed to provide an excellent balance of physical property performance and durability, with improved surface appearance. These materials 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-GMF-600-A-40-Natural-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.90 % @Thickness 3.18 mm	0.90 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 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
Tensile Strength, Yield	89.6 MPa	13000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Yield	14 %	14 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	141 MPa	20500 psi	ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.11 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	200 °C @Thickness 3.18 mm	392 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 °C @Thickness 3.18 mm	212 °F @Thickness 0.125 in	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Appearance	Natural Color	

Descriptive Properties Features	Value General Purpose	Comments
Filler / Reinforcement	Mineral Filler	
	Unspecified FillerReinfor., 40% 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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