

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

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

The Nymax® GMF 600 Series of compounds are based upon nylon 6 resins and select combinations of glass fiber and mineral reinforcements offering a unique balance of physical property and part performance. These materials have been specifically 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-HS-Natural-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Nymax-GMF-600-A-40-HS-Natural-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Water Absorption	0.80 % @Thickness 3.18 mm	0.80 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	103 MPa	14900 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	124 MPa	18000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	7.76 GPa	1130 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	424 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	215 °C @Thickness 3.18 mm	419 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 °C @Thickness 3.18 mm	392 °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
Additive	Heat Stabilizer	
Appearance	Natural Color	
Features	General Purpose	
	Heat Stabilized	
Filler / Reinforcement	GlassMineral	
	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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China