

## PolyOne Nymax™ GMF 600 40 Black 117 V P1 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-600-40-Black-117-V-P1-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Nymax-GMF-600-40-Black-117-V-P1-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	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	117 MPa	17000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 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
Deflection Temperature at 1.8 MPa (264 psi)	198 °C @Thickness 3.18 mm	388 °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	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Additive	Heat Stabilizer		
Appearance	Black		
Features	General Purpose		
	Heat Stabilized		
Filler / Reinforcement	GlassMineral, 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.

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