

## PolyOne Nymax™ GF 604 35 HS Black 13 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-604-35-HS-Black-13-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Nymax-GF-604-35-HS-Black-13-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Water Absorption	1.0 %	1.0 %	@ 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	172 MPa	24900 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	152 MPa	22000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	214 MPa	31000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.06 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)	201 °C @Thickness 3.18 mm	394 °F @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	

<small>Dry Time</small> Processing Properties	<small>4.00 hour</small> Metric	<small>4.00 hour</small> English	Comments
<b>Descriptive Properties</b>	<b>Value</b>		<b>Comments</b>
Additive	Heat Stabilizer		
Appearance	Black		
Features	General Purpose		
	Heat Stabilized		
Filler / Reinforcement	Glass Fiber Reinforcement, 35% 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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