

## PolyOne Nymax™ GF 1200 A 55 HS Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

The Nymax® GF 1200 Series of glass fiber-reinforced nylon 6/6 compounds have been specifically formulated for applications requiring high stiffness, tensile properties, heat resistance, and durability in harsh environments. 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-1200-A-55-HS-Natural-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-Nymax-GF-1200-A-55-HS-Natural-Polyamide-66-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Water Absorption	0.60 % @Thickness 3.18 mm	0.60 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	214 MPa	31000 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	237 MPa	34400 psi	5.0 mm/min; ISO 527
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	15.2 GPa	2200 ksi	ASTM D638
Flexural Strength	317 MPa	46000 psi	ASTM D790
Flexural Modulus	14.5 GPa	2100 ksi	ASTM D790
	17.1 GPa	2480 ksi	25 mm/min; ISO 178
Izod Impact, Notched	1.60 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	3.00 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	Unannealed; ISO 75-2
	255 °C @Thickness 3.18 mm	491 °F @Thickness 0.125 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 107 °C	140 - 225 °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	Glass Fiber Reinforcement, 55% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
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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