



## Nymax™ GF 1200 60 Natural Polyamide 66

### Key Characteristics

#### Product Description

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

#### General

Material Status	• Commercial: Active		
Regional Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 60% Filler by Weight		
Features	• General Purpose		
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.69	1.69	ASTM D792
Molding Shrinkage - Flow	0.0010 to in/in 0.0020	0.10 to 0.20 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.60 %	0.60 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	2.40E+6 psi	16500 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	35000 psi	241 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638
Flexural Modulus	2.20E+6 psi	15200 MPa	ASTM D790
Flexural Strength	48000 psi	331 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	3.00 ft-lb/in	160 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	491 °F	255 °C	

#### Additional Properties

Molded Test Bars: Dry as Molded

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)

**CONTACT INFORMATION**

**Americas**

Argentina - Buenos Aires  
+0054 11 4200 5917

Brasil - Campinas  
+55 19 3206 0561

Mexico - Toluca  
+52 722 2790200

United States - Avon Lake  
+1 440 930 1000

**Asia**

China - Shenzhen  
+86 (0) 755 2969 2888

China - Suzhou  
+86 (0) 512 6823 24 38

India - Mumbai  
+91 9820 194 220

Singapore - Singapore  
+65 (0) 6861 9325

**Europe**

Germany - Gaggenau  
+49 (0) 7225 6802 0

Spain - Barbastro (Huesca)  
+34 (0) 9 7431 0314

Turkey - Cekmece-Istanbul-Türkiye  
+90 (0) 212 549 2256

United Kingdom - Widnes  
+44 (0) 05600 760 800



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[www.polyone.com](http://www.polyone.com)

**PolyOne Americas**

33587 Walker Road  
Avon Lake, Ohio 44012  
United States  
+1 440 930 1000  
+1 866 POLYONE

**PolyOne Asia**

No. 88 Guoshoujing Road  
Z.J Hi-tech Park, Pudong  
Shanghai, 201203, China  
+86 (0) 21 5080 1188

**PolyOne Europe**

2 Rue Melville Wilson  
5330 Assesse, Belgium  
+32 (0) 83 660 211