



## Nymax™ GF 600 A 33 XDH Slate

### Polyamide 6

#### Key Characteristics

##### Product Description

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.

##### General

Material Status	• Commercial: Active		
Regional Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 33% Filler by Weight		
Features	• General Purpose	• Good Weather Resistance	
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Automotive Specifications	• CHRYSLER MS-DB41 CPN2625		
Appearance	• Gray		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.38	1.38	ASTM D792
Density	1.37 g/cm <sup>3</sup>	1.37 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow	0.0020 to 0.0040 in/in	0.20 to 0.40 %	ASTM D955
Molding Shrinkage	0.20 to 0.40 %	0.20 to 0.40 %	ISO 294-4
Water Absorption (24 hr)	0.90 %	0.90 %	ASTM D570
Water Absorption (73°F (23°C), 24 hr)	1.0 %	1.0 %	ISO 62
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.15E+6 psi	7930 MPa	ASTM D638
Tensile Modulus	8300 psi	57.2 MPa	ISO 527-2
Tensile Strength <sup>2</sup> (Yield)	22500 psi	155 MPa	ASTM D638
Tensile Stress (Yield)	140 psi	0.965 MPa	ISO 527-2
Tensile Elongation <sup>2</sup> (Yield)	3.0 %	3.0 %	ASTM D638
Tensile Strain (Break)	4.0 %	4.0 %	ISO 527-2
Flexural Modulus	1.15E+6 psi	7930 MPa	ASTM D790
Flexural Modulus	8400 psi	57.9 MPa	ISO 178
Flexural Strength	32000 psi	221 MPa	ASTM D790
Flexural Strength	220 psi	1.52 MPa	ISO 178
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	2.00 ft-lb/in	107 J/m	
Notched Izod Impact Strength	8.30 ft-lb/in <sup>2</sup>	17.4 kJ/m <sup>2</sup>	ISO 180

Copyright © 2008 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	402 °F	206 °C	ASTM D648
Heat Deflection Temperature 264 psi (1.8 MPa), Annealed	392 °F	200 °C	ISO 75-2/A
<b>Additional Properties</b>			
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



*Beyond Polymers.*

*Better Business Solutions.™*

[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