

## Nymax<sup>™</sup> GF 600 A 33 XDV Dark Slate Polyamide 6

## **Key Characteristics**

#### Product Description

Gene

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	<ul> <li>South America</li> </ul>	
Filler / Reinforcement	Glass Fiber Reinforcement,	33% Filler by Weight	
Features	General Purpose	Good Weather Resistance	
Uses	<ul><li>Automotive Applications</li><li>Construction Applications</li></ul>	<ul><li>Consumer Applications</li><li>General Purpose</li></ul>	<ul> <li>Industrial Applications</li> </ul>
Automotive Specifications	CHRYSLER MS-DB41 CP	N2625	
Appearance	• Gray		
Forms	Pellets		
Processing Method	<ul> <li>Injection Molding</li> </ul>		

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

Typical Value (English)	Typical Value (SI)	Test Method
1.38	1.38	ASTM D792
1.37 g/cm <sup>3</sup>	1.37 g/ci	m <sup>3</sup> ISO 1183
0.0020 to in/in 0.0040	0.20 to 0.40 %	ASTM D955
0.20 to 0.40 %	0.20 to 0.40 %	ISO 294-4
0.90 %	0.90 %	ASTM D570
1.0 %	1.0 %	ISO 62
Typical Value (English)	Typical Value (SI)	Test Method
1.20E+6 psi	8270 MP	a ASTM D638
8300 psi	57.2 MP	a ISO 527-2
22000 psi	152 MP	a ASTM D638
140 psi	0.965 MP	a ISO 527-2
3.0 %	3.0 %	ASTM D638
4.0 %	4.0 %	ISO 527-2
1.20E+6 psi	8270 MP	a ASTM D790
8400 psi	57.9 MP	a ISO 178
32000 psi	221 MP	a ASTM D790
220 psi	1.52 MP	a ISO 178
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D256A
2.00 ft·lb/in	107 J/m	I
8.30 ft·lb/in <sup>2</sup>	17.4 kJ/r	m <sup>2</sup> ISO 180
	1.38         1.37       g/cm³         0.0020 to in/in       0.0040         0.20 to 0.40       %         0.20 to 0.40       %         1.0       %         Typical Value       (English)         1.20E+6       psi         8300       psi         22000       psi         140       psi         3.0       %         1.20E+6       psi         3400       psi         32000       psi         2200       psi         2200       psi         2200       psi         3.0       %         4.0       %         1.20E+6       psi         32000       psi         220       psi         2200       psi         2200       psi         2200       psi         2200       psi         200       psi         2200       psi         200       psi         200       ft-lb/in	1.38       1.37         1.37       g/cm³       1.37       g/cd         0.0020 to in/in       0.20 to 0.40       %         0.20 to 0.40       %       0.90       %         0.90       %       0.90       %         1.0       %       1.0       %         Typical Value (English)       Typical Value (SI)       1.20E+6         1.20E+6       psi       8270       MP         22000       psi       152       MP         140       psi       0.965       MP         3.0       %       3.0       %         1.20E+6       psi       8270       MP         32000       psi       57.9       MP         32000       psi       221       MP         220       psi       1.52       MP         220       psi       1.52       MP         2200       psi       1.52       MP         2200       psi       1.52       MP

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## Nymax<sup>™</sup> GF 600 A 33 XDV Dark Slate

### **Technical Data Sheet**

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	392 °F	200 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Annealed	392 °F	200 °C	
Additional Properties			
Moldod Toot Pore: Dry on Moldod			

Molded Test Bars: Dry as Molded

#### Notes

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

Asia

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

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