

# Nymax<sup>™</sup> GF 600 A 33 Black 28 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.

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Commercial: Active		
<ul> <li>North America</li> </ul>	<ul> <li>South America</li> </ul>	
<ul> <li>Glass Fiber Reinforcement</li> </ul>	, 33% Filler by Weight	
General Purpose		
<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>
CHRYSLER MS-DB41 CNP 4338	• FORD ESB-M4D133-A	
Black		
Pellets		
Injection Molding		
	North America Glass Fiber Reinforcement General Purpose Automotive Applications Construction Applications CHRYSLER MS-DB41 CNP 4338 Black Pellets	<ul> <li>North America</li> <li>Glass Fiber Reinforcement, 33% Filler by Weight</li> <li>General Purpose</li> <li>Automotive Applications</li> <li>Construction Applications</li> <li>CHRYSLER MS-DB41 CNP 4338</li> <li>Black</li> <li>Pellets</li> <li>South America</li> <li>Consumer Applications</li> <li>General Purpose</li> <li>FORD ESB-M4D133-A</li> </ul>

Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method	
Specific Gravity	1.36	1.36	ASTM D792	
Molding Shrinkage - Flow	0.0020 to in/in 0.0040	0.20 to 0.40 %	ASTM D955	
Water Absorption (24 hr)	9.0 %	9.0 %	ASTM D570	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method	
Tensile Modulus	1.20E+6 psi	8270 MPa	ASTM D638	
Tensile Strength <sup>2</sup> (Yield)	23500 psi	162 MPa	ASTM D638	
Tensile Elongation <sup>2</sup> (Yield)	3.0 %	3.0 %	ASTM D638	
Flexural Modulus	1.20E+6 psi	8270 MPa	ASTM D790	
Flexural Strength	34000 psi	234 MPa	ASTM D790	
mpact	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	2.20 ft·lb/in	117 J/m		
hermal	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		

#### Additional Properties

Molded Test Bars: Dry as Molded

## Notes

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

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

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