

Nymax<sup>™</sup> GF 1200 A 43 Black 13

# **Key Characteristics**

#### Product Description

Polyamide 66

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

## Genera

Material Status	<ul> <li>Commercial: Active</li> </ul>		
Regional Availability	North America	<ul> <li>South America</li> </ul>	
Filler / Reinforcement	Glass Fiber Reinforcement	Unspecified Filler\Reinfor., 43% Filler by Weight	
Features	General Purpose		
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>
Appearance	<ul> <li>Natural Color</li> </ul>		
Forms	Pellets		
Processing Method	<ul> <li>Injection Molding</li> </ul>		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.50	1.50	ASTM D792
Molding Shrinkage - Flow	0.0015 in/in	0.15 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.60 %	0.60 %	ASTM D570
<i>l</i> echanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Break)	32000 psi	221 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.70E+6 psi	11700 MPa	ASTM D790
Flexural Strength	41500 psi	286 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	3.00 ft·lb/in	160 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	495 °F	257 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	480 °F	249 °C	
Melting Temperature	500 °F	260 °C	ASTM D789
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)

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