

Nymax<sup>™</sup> GF 1200 A 43 Natural

# **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

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Material Status	<ul> <li>Commercial: Active</li> </ul>		
Regional Availability	North America	<ul> <li>South America</li> </ul>	
Filler / Reinforcement	Glass Fiber Reinforcement	<ul> <li>Unspecified Filler\Reinfor.,</li> <li>43% Filler by Weight</li> </ul>	
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 (Er	nglish) Typical Value	(SI) Test Method
Specific Gravity	1.50	1.50	ASTM D792
Molding Shrinkage - Flow	0.0030 in/i	/in 0.30	% ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.60 %	0.60	% ASTM D570
lechanical	Typical Value (Er	nglish) Typical Value	(SI) Test Method
Tensile Strength <sup>2</sup> (Break)	32000 psi	i 221	MPa ASTM D638
Tensile Elongation <sup>2</sup> (Break)	2.5 %	2.5	% ASTM D638
Flexural Modulus	1.75E+6 psi	i 12100	MPa ASTM D790
Flexural Strength	42000 psi	i 290	MPa ASTM D790
npact	Typical Value (Er	nglish) Typical Value	(SI) Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	3.00 ft·ll	lb/in 160	J/m
hermal	Typical Value (Er	nglish) 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)	486 °F	252	°C
Melting Temperature	500 °F	260	°C ASTM D789
	500 °F	260	°C ASTM D

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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