



## Nymax™ GF 1200 A 25 HS Natural Polyamide 66

### Key Characteristics

#### Product Description

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

#### General

Material Status	• Commercial: Active		
Regional Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• General Purpose	• Heat Stabilized	
Uses	• Automotive Applications • Construction Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.32	1.32	ASTM D792
Molding Shrinkage - Flow	0.0030 to in/in 0.0050	0.30 to 0.50 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	1.0 %	1.0 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.00E+6 psi	6890 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	23000 psi	159 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.00E+6 psi	6890 MPa	ASTM D790
Flexural Strength	23000 psi	159 MPa	ASTM D790
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	1.30 ft-lb/in	69.4 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	430 °F	221 °C	

#### 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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