

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 ApplicationsConstruction Applications	Consumer ApplicationsGeneral Purpose	 Industrial Applications
Appearance	 Natural Color 		
Forms	Pellets		
Processing Method	Injection Molding		

Technical Properties 1

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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 ² (Break)	23000 psi	159 MPa	ASTM D638
Tensile Elongation ² (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
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	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

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¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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