

Nymax[™] GF 1200 60 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, 60% Filler by Weight 		
Features	General Purpose		
Uses	 Automotive Applications Construction Applications General 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	1.69	1.69	ASTM D792	
Molding Shrinkage - Flow	0.0010 to in/in 0.0020	0.10 to 0.20 %	ASTM D955	
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.60 %	0.60 %	ASTM D570	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method	
Tensile Modulus	2.40E+6 psi	16500 MPa	ASTM D638	
Tensile Strength ² (Break)	35000 psi	241 MPa	ASTM D638	
Tensile Elongation ² (Break)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638	
Flexural Modulus	2.20E+6 psi	15200 MPa	ASTM D790	
Flexural Strength	48000 psi	331 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	
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	491 °F	255 °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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