

Nymax™ GF 1200 33 Red 31 A 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, 33% Filler by Weight			
Features	General Purpose			
Uses	 Automotive Applications Construction Applications General Purpose Industrial Applications 			
Appearance	• Red			
Forms	• Pellets			
Processing Method	Injection Molding			

Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method	
Specific Gravity	1.38	1.38	ASTM D792	
Molding Shrinkage - Flow	0.0020 to in/in 0.0040	0.20 to 0.40 %	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	1.25E+6 psi	8620 MPa	ASTM D638	
Tensile Strength ² (Break)	27000 psi	186 MPa	ASTM D638	
Tensile Elongation ² (Break)	2.0 to 4.0 %	2.0 to 4.0 %	ASTM D638	
Flexural Modulus	1.25E+6 psi	8620 MPa	ASTM D790	
Flexural Strength	35000 psi	241 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	1.70 ft·lb/in	90.7 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)	482 °F	250 °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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