

Nymax[™] GF 1200 A 13 Black 13 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
Features	General Purpose
Uses	 Automotive Applications Consumer Applications Industrial Applications General Purpose
Appearance	Black
Forms	• Pellets
Processing Method	Injection Molding

Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.22	1.22	ASTM D792
Molding Shrinkage - Flow	0.0060 in/in	0.60 %	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 Strength ² (Break)	15700 psi	108 MPa	ASTM D638
Tensile Elongation ² (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	650000 psi	4480 MPa	ASTM D790
Flexural Strength	20000 psi	138 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	0.700 ft·lb/in	37.4 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	482 °F	250 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	464 °F	240 °C	
Melting Temperature	500 °F	260 °C	ASTM D789
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Additional Properties ³ (Relative Viscosity)	53.000	53.000	ASTM D789
Additional Properties			

Molded Test Bars: Dry as Molded

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Notes

- ¹ Typical values are not to be construed as specifications.
- ² Type I, 0.20 in/min (5.1 mm/min)
- ³ Formic Acid

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