

Nymax[™] GF 600 A 33 Grey 150 A UV Polyamide 6

Key Characteristics

Product Description

The Nymax® GF 600 Series of glass fiber-reinforced nylon 6 compounds have been specifically engineered for applications requiring high stiffness, tensile strength, and toughness, while providing enhanced surface appearance versus nylon 6/6 compounds. 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		
Additive	UV Stabilizer		
Features	General Purpose	Good Weather Resistance	
Uses	Automotive ApplicationsConstruction Applications	Consumer Applications General Purpose Industrial Applications	
Appearance	 Gray 		
Forms	Pellets		
Processing Method	Injection Molding		

Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.36	1.36	ASTM D792
Molding Shrinkage - Flow	0.0020 to in/in 0.0040	0.20 to 0.40 %	ASTM D955
Water Absorption (24 hr)	1.2 %	1.2 %	ASTM D570
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.20E+6 psi	8270 MPa	ASTM D638
Tensile Strength ² (Yield)	24000 psi	165 MPa	ASTM D638
Tensile Elongation ² (Yield)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.20E+6 psi	8270 MPa	ASTM D790
Flexural Strength	34000 psi	234 MPa	ASTM D790
npact	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	2.50 ft·lb/in	133 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	401 °F	205 °C	ASTM D648

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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