

Nymax[™] GF 600 A 33 HS Black 11 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.

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General			
Material Status	Commercial: Active		
Regional Availability	 North America 	 South America 	
Filler / Reinforcement	 Glass Fiber Reinforcement, 33% Filler by Weight 		
Additive	Heat Stabilizer		
Features	General Purpose	 Heat Stabilized 	
Uses	Automotive ApplicationsConstruction Applications	Consumer ApplicationsGeneral Purpose	 Industrial Applications
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	1.36	1.36	ASTM D792
Molding Shrinkage - Flow	0.0030 to in/in 0.0050	0.30 to 0.50 %	ASTM D955
Water Absorption (24 hr)	1.0 %	1.0 %	ASTM D570
lechanical experience of the second s	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	1.10E+6 psi	7580 MPa	ASTM D790
Flexural Strength	31000 psi	214 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	2.00 ft·lb/in	107 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)	392 °F	200 °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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