

Nymax[™] GF 600 A 33 Black 13

Key Characteristics

Product Description

Polyamide 6

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.

Material Status	Commercial: Active			
Regional Availability	North America	 South America 		
Filler / Reinforcement	 Glass Fiber Reinforcement, 33% Filler by Weight 			
Features	General Purpose			
Uses	Automotive ApplicationsConstruction Applications	 Consumer Applications General Purpose 	 Industrial Applications 	
Automotive Specifications	CHRYSLER MS-DB41 CF	PN4338		
Appearance	Black			
Forms	Pellets			
Processing Method	 Injection Molding 			

Technical Properties¹

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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)	1.0 %	1.0 %	ASTM D570
Mechanical	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
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	2.00 ft·lb/in	107 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	401 °F	205 °C	
Additional Properties			
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Molded Test Bars: Dry as Molded

Notes

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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