

Nymax[™] GF 600 A 14 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	 Unspecified Filler\Reinfor., 14% Filler by Weight 	
Features	General Purpose		
Uses	 Automotive Applications Construction Applications 	Consumer ApplicationsGeneral Purpose	 Industrial Applications
Appearance	Black		
Forms	Pellets		
Processing Method	 Injection Molding 		

Technical Properties¹

Physical	Typical Value (English	n) Typical Value (SI)	Test Method
Specific Gravity	1.22	1.22	ASTM D792
Molding Shrinkage - Flow	0.0040 in/in	0.40 %	ASTM D955
Mechanical	Typical Value (English	n) Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	16000 psi	110 MPa	ASTM D638
Tensile Elongation ² (Yield)	4.0 %	4.0 %	ASTM D638
Flexural Modulus	660000 psi	4550 MPa	ASTM D790
Flexural Strength	21000 psi	145 MPa	ASTM D790
mpact	Typical Value (English	n) Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.900 ft·lb/in	48.0 J/m	
Thermal	Typical Value (English	n) Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	414 °F	212 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	378 °F	192 °C	
Melting Temperature	419 °F	215 °C	ASTM D789
Additional Properties			
Maldad Test Days, Dry, as Maldad			

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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