

Nymax[™] GF 600 A 14 Natural

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	Glass Fiber Reinforcement Unspecified Filler\Reinfor., 14% Filler by Weight				
Features	General Purpose					
Uses	 Automotive Applications Construction Applications 	Consumer ApplicationsGeneral Purpose	 Industrial Applications 			
Appearance	 Natural Color 					
Forms	Pellets					
Processing Method	 Injection Molding 					

Technical Properties¹

Physical	Typical Value ((English)	Typical Value	(SI)	Test Method
Specific Gravity	1.22		1.22		ASTM D792
Molding Shrinkage - Flow	0.0040 ii	n/in	0.40	%	ASTM D955
<i>A</i> echanical	Typical Value ((English)	Typical Value	(SI)	Test Method
Tensile Strength ² (Yield)	16000 p	osi	110	MPa	ASTM D638
Tensile Elongation ² (Yield)	4.0 %	%	4.0	%	ASTM D638
Flexural Modulus	650000 p	osi	4480	MPa	ASTM D790
Flexural Strength	20000 p	osi	138	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	1.00 f	t·lb/in	53.4	J/m	
hermal	Typical Value ((English)	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)	383 °	°F	195	°C	
Melting Temperature	419 °	°F	215	°C	ASTM D789
dditional 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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CONTACT INFORMATION

Americas

Argentina - Buenos Aires +0054 11 4200 5917 Brasil - Campinas +55 19 3206 0561 Mexico - Toluca +52 722 2790200 United States - Avon Lake +1 440 930 1000 Asia China - Shenzhen +86 (0) 755 2969 2888 China - Suzhou +86 (0) 512 6823 24 38 India - Mumbai +91 9820 194 220 Singapore - Singapore +65 (0) 6861 9325

Europe

Germany - Gaggenau +49 (0) 7225 6802 0 Spain - Barbastro (Huesca) +34 (0) 9 7431 0314 Turkey - Cekmece-Istanbul-Türkiye +90 (0) 212 549 2256 United Kingdom - Widnes +44 (0) 05600 760 800

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PolyOne Americas

33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000 +1 866 POLYONE

PolyOne Asia

No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong Shanghai, 201203, China +86 (0) 21 5080 1188

PolyOne Europe

2 Rue Melville Wilson 5330 Assesse, Belgium +32 (0) 83 660 211