

Nymax[™] GF 600 A 25 Black 13 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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Material Status	Commercial: Active		
Regional Availability	North America	 South America 	
Filler / Reinforcement	Glass Fiber Reinforcement	 Unspecified Filler\Reinfor., 25% Filler by Weight 	
Features	General Purpose		
Uses	Automotive ApplicationsConstruction Applications	Consumer ApplicationsGeneral Purpose	 Industrial Applications
Appearance	 Natural Color 		
Forms	Pellets		
Processing Method	Injection Molding		

Technical Properties 1

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.32	1.32	ASTM D792
Molding Shrinkage - Flow	0.0030 in/in	0.30 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	20000 psi	138 MPa	ASTM D638
Tensile Elongation ² (Yield)	3.5 %	3.5 %	ASTM D638
Flexural Modulus	1.00E+6 psi	6890 MPa	ASTM D790
Flexural Strength	30000 psi	207 MPa	ASTM D790
Impact	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	1.80 ft·lb/in	96.1 J/m	
Thermal	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)	419 °F	215 °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	428 °F	220 °C	ASTM D789
Additional Properties			Í

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)

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 PolyOne.

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

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

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