

Nymax[™] GMF 600 A 40 Natural Polyamide 6

Key Characteristics

Product Description

The Nymax® 600 Series of mineral-reinforced nylon 6 compounds have been specifically developed to provide an excellent balance of physical property performance and durability, with improved surface appearance. These materials have been formulated to offer ease of processing in most standard thermoplastic processing equipment.

General	
Material Status	Commercial: Active
Regional Availability	Latin America North America
Filler / Reinforcement	Filler, 40% Filler by Weight
Features	General Purpose
Uses	 Automotive Applications Consumer Applications General Purpose Industrial Applications
Appearance	Natural Color
Forms	• Pellets
Processing Method	Injection Molding

Technical Properties 1

	roommount ropormo	•	
Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.50	1.50	ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 9.0E-3 in/in	0.60 to 0.90 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.90 %	0.90 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	13000 psi	89.6 MPa	ASTM D638
Tensile Strength ² (Break)	17000 psi	117 MPa	ASTM D638
Tensile Elongation ² (Yield)	14 %	14 %	ASTM D638
Flexural Modulus	950000 psi	6550 MPa	ASTM D790
Flexural Strength	20500 psi	141 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	1.1 ft·lb/in	59 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	392 °F	200 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	212°F	100 °C	
Melting Temperature	421 °F	216 °C	ASTM D789
Additional Information			

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

United States - Avon Lake +1 440 930 1000

United States - McHenry +1 815 385 8500 Asia

China - Guangzhou +86 20 8732 7260 China - Shenzhen +86 755 2969 2888

China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600

Hong Kong -+852 2690 5332

Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849 Europe

Germany - Gaggenau +49 7225 6802 0

Spain - Barbastro (Huesca) +34 974 310 314

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 21 5080 1188

PolyOne Europe

6 Giällewee +352 269 050 35

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