

Nymax[™] GMF600 40 NATURAL Polyamide 6

Key Characteristics

Product Description	
Glass fiber and mineral reinford	ed PA6 compound.
General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Filler / Reinforcement	 Glass\Mineral, 40% Filler by Weight
Automotive Specifications	GM GMP.PA6.001 Color: Natural
Appearance	Natural Color
Processing Method	Injection Molding

Technical Properties¹

Typical Value (English)	Typical Value (SI)	Test Method
1.46	1.46	ASTM D792
0.20 to 0.50 %	0.20 to 0.50 %	ASTM D955
Typical Value (English)	Typical Value (SI)	Test Method
17400 psi	120 MPa	ASTM D638
1.13E+6 psi	7800 MPa	ASTM D790
33400 psi	230 MPa	ASTM D790
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D256
1.3 ft·lb/in	70 J/m	
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D648
365 °F	185 °C	
Typical Value (English)	Typical Value (SI)	Test Method
1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Typical Value (English)	Typical Value (SI)	Test Method
		UL 94
	1.46 0.20 to 0.50 % Typical Value (English) 17400 psi 1.13E+6 psi 33400 psi Typical Value (English) 1.3 ft·lb/in Typical Value (English) 365 °F Typical Value (English) 1.0E+15 ohms	1.46 1.46 0.20 to 0.50 % 0.20 to 0.50 % Typical Value (English) Typical Value (SI) 17400 psi 120 MPa 1.13E+6 psi 7800 MPa 33400 psi 230 MPa Typical Value (English) Typical Value (SI) 1.3 ft·lb/in 70 J/m Typical Value (English) Typical Value (SI) 365 °F 185 °C Typical Value (English) Typical Value (SI) 1.0E+15 ohms 1.0E+15 ohms

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 to 212 °F	80.0 to 100 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	
Rear Temperature	464 to 536 °F	240 to 280 °C	
Middle Temperature	464 to 536 °F	240 to 280 °C	
Front Temperature	464 to 536 °F	240 to 280 °C	
Mold Temperature	158 to 194 °F	70.0 to 90.0 °C	
Injection Notes			

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH Screw Speed: MODERATE Back Pressure: LOW

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Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

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