



Nymax™ GMF 604 40 UV Black 148

Polyamide 6

Key Characteristics

Product Description			
Glass fiber and mineral reinforced PA6 compound with UV resistant			
General			
Material Status	• Commercial: Active		
Regional Availability	• Latin America	• North America	
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• General Purpose	• Heat Stabilized	
Uses	• Automotive Applications	• Consumer Applications	• Industrial Applications
	• Construction Applications	• General Purpose	
Automotive Specifications	• CHRYSLER MS-DB-41 CPN3916		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.48	1.48	ASTM D792
Density	1.49 g/cm ³	1.49 g/cm ³	ISO 1183
Molding Shrinkage	0.20 to 0.40 %	0.20 to 0.40 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.80 %	0.80 %	ASTM D570
Water Absorption (24 hr, 73°F (23°C))	1.0 %	1.0 %	ISO 62
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.20E+6 psi	8270 MPa	ASTM D638
Tensile Modulus	1.23E+6 psi	8500 MPa	ISO 527-2
Tensile Strength ² (Yield)	17500 psi	121 MPa	ASTM D638
Tensile Stress (Yield)	17000 psi	117 MPa	ISO 527-2
Tensile Strength ² (Break)	17000 psi	117 MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527-2
Flexural Modulus	1.10E+6 psi	7580 MPa	ASTM D790
Flexural Modulus	1.22E+6 psi	8400 MPa	ISO 178
Flexural Strength	26000 psi	179 MPa	ASTM D790
Flexural Stress	27600 psi	190 MPa	ISO 178
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	1.3 ft·lb/in	69 J/m	
Notched Izod Impact Strength	6.0 ft·lb/in ²	13 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Annealed	383 °F	195 °C	

Additional Information

Molded Test Bars: Dry as Molded

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	4.0 hr	4.0 hr
Mold Temperature	120 to 200 °F	49 to 93 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)