

Nymax™ X GMF 604 40 UV Black 148 rev 4

Polyamide 6

PolyOne Corporation

Message:

Nymaxm®GMF600 series polymer products are a combination of nylon 6 resin and glass fiber or mineral reinforcement, which can maintain a unique balance between physical properties and component properties. These materials are dedicated to processing in standard thermoplastic processing equipment.

General Information			
Filler / Reinforcement	Glass \mineral, 40% filler by weight		
Additive	heat stabilizer UV stabilizer		
Features	Thermal Stability General		
Uses	Industrial application Architectural application field Application in Automobile Field General Consumer goods application field		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.48	g/cm ³	ASTM D792
--	1.49	g/cm ³	ISO 1183
Molding Shrinkage			
Flow	0.20 - 0.40	%	ASTM D955
--	0.20 - 0.30	%	ISO 294-4
Water Absorption			
24 hr, 3.18 mm	0.80	%	ASTM D570
23°C, 24 hr	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	8270	MPa	ASTM D638
--	8500	MPa	ISO 527-2
Tensile Strength			
Yield ¹	121	MPa	ASTM D638

Yield	117	MPa	ISO 527-2
Fracture ²	117	MPa	ASTM D638
Tensile Elongation			
Fracture ³	2.0 - 3.0	%	ASTM D638
Fracture	2.5	%	ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	8400	MPa	ISO 178
Flexural Strength			
--	179	MPa	ASTM D790
--	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18mm, injection molding	69	J/m	ASTM D256A
--	13	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	195	°C	ISO 75-2/A
Additional Information			
Molded Test Bars: Dry as Molded			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Mold Temperature	60.0 - 107	°C	
NOTE			
1.	Type 1, 5.1 mm/min		
2.	Type 1, 5.1 mm/min		
3.	Type 1, 5.1 mm/min		

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