

PolyOne Nymax™ GMF 604 40 UV Black 28 Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

The Nymax® GMF 600 Series of compounds are based upon nylon 6 resins and select combinations of glass fiber and mineral reinforcements offering a unique balance of physical property and part performance. These materials have been specifically formulated to offer ease of processing in most standard thermoplastic processing equipment. Molded Test Bars: Dry as Molded Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Nymax-GMF-604-40-UV-Black-28-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	1.0 %	1.0 %	24h/23C; ISO 62
	0.80 % @Thickness 3.18 mm	0.80 % @Thickness 0.125 in	@ 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ISO 294-4
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	116 MPa	16800 psi	ISO 527-2
	124 MPa	18000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	Type I, 5.1 mm/min; ASTM D638
	2.5 %	2.5 %	ISO 527-2
Tensile Modulus	8.27 GPa	1200 ksi	ASTM D638
	8.50 GPa	1230 ksi	ISO 527-2
Flexural Strength	179 MPa	26000 psi	ASTM D790
	190 MPa	27600 psi	ISO 178
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
	8.30 GPa	1200 ksi	ISO 178

Mechanical Properties <i>Izod Impact, Notched</i>	0.690 J/cm Metric	1.29 ft-lb/in English	Comments <i>Injection Molding; ASTM D256A</i>
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	Annealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Mold Temperature	48.9 - 93.3 °C	120 - 200 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	UV Stabilizer	
Appearance	Black	
Automotive Specifications	CHRYSLER MS-DB41 CPN3916	
	FORD WSS-M4D822-A2	
Features	General Purpose	
	Heat Stabilized	
Filler / Reinforcement	GlassMineral, 40% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	

Descriptive Properties	Consumer Applications Value	Comments
General Purpose		
Industrial Applications		

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