

PolyOne Nymax™ GMF 604 40 UV Black 148 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-148-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	ASTM D792
Density	1.49 g/cc	0.0538 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	117 MPa	17000 psi	ISO 527-2
	121 MPa	17500 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
	8.40 GPa	1220 ksi	ISO 178

Mechanical Properties Izod Impact, Notched	0.690 J/cm Metric	1.29 ft-lb/in English	Comments Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Notched (ISO)	13.0 kJ/m²	6.19 ft-lb/in²	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	
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	
	Consumer Applications	

Descriptive Properties	General Purpose Value	Comments
Industrial Applications		

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