

PolyOne Nymax™ MF 1204 40 Black 13 Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

The Nymax® MF 1200 Series of mineral-reinforced nylon 6/6 compounds have been specifically engineered to provide an excellent balance of physical property performance, toughness, chemical resistance, and durability. These materials have been 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-MF-1204-40-Black-13-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Water Absorption	0.60 %	0.60 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.4 MPa	10500 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Strength, Yield	88.9 MPa	12900 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.899 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	185 °C @Thickness 3.18 mm	365 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Mold Temperature	60.0 - 107 °C	140 - 225 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Black	
Features	General Purpose	
Filler / Reinforcement	Mineral Filler, 40% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Processing Method	Injection Molding	
Regional Availability	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

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