

Nymax™ ND 1233 GF Black

Polyamide 66

PolyOne Corporation

Message:

Nymax of nylon 6/6 polymers reinforced with glass fibers®GF 1200 series products are specially used in harsh environments and have the characteristics of high rigidity, tensile properties, heat resistance, durability, etc. According to the needs of rigid characteristics, these materials have a large range of strength and are easy to process in standard thermoplastic processing equipment.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Additive	heat stabilizer		
Features	Industrial resin		
	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			
--	1.39	g/cm ³	ASTM D792
--	1.40	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 - 0.40	%	ASTM D955
Water Absorption			
24 hr, 3.18 mm	1.0	%	ASTM D570
23°C, 24 hr	1.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	135	MPa	ISO 527-2
Fracture ¹	145	MPa	ASTM D638
Tensile Elongation			
Fracture ²	2.0	%	ASTM D638
Fracture	2.0 - 4.0	%	ISO 527-2
Flexural Modulus	9000	MPa	ASTM D790, ISO 178
Flexural Strength	230	MPa	ASTM D790, ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18mm, injection molding	64	J/m	ASTM D256A
23°C	6.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.18mm	230	°C	ASTM D648
1.8 MPa, not annealed	240	°C	ISO 75-2/A
Peak Melting Temperature	260	°C	ASTM D789, ISO 3146
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		

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