

Nymax™ GF 1200 A 33 HS Natural

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	Thermal Stability		
	General		
Uses	Industrial application		
	Architectural application field		
	Application in Automobile Field		
	General		
	Consumer goods application field		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	193	MPa	ISO 527-2
Fracture ¹	197	MPa	ASTM D638
Tensile Elongation ² (Break)	3.0	%	ASTM D638
Tensile Creep Modulus			ISO 899-1
1 hr	9430	MPa	ISO 899-1
1000 hr	6310	MPa	ISO 899-1
Flexural Modulus			
--	68.4	MPa	ISO 178
--	8960	MPa	ASTM D790
Flexural Strength			
--	230	MPa	ISO 178
--	276	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179
Notched Izod Impact			
23°C, 3.18mm, injection molding	130	J/m	ASTM D256A
--	10	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	246	°C	ISO 75-2/B
1.8 MPa, unannealed, 3.18mm	250	°C	ASTM D648
Melting Temperature	260	°C	
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.6E-5	cm/cm/°C	ISO 11359-2
Lateral	9.9E-5	cm/cm/°C	ISO 11359-2
Additional Information			

模制试验条:模制时干燥

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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