

Nymax™ GF 1200 A 55 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, 55% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
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	1.60	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18600	MPa	ASTM D638
Tensile Strength			
Yield ¹	246	MPa	ISO 527
Fracture ²	214	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0 - 3.0	%	ASTM D638
Flexural Modulus			
--	15900	MPa	ASTM D790
-- ⁴	17100	MPa	ISO 178
Flexural Strength	345	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18mm, injection molding	130	J/m	ASTM D256A
--	14	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	245	°C	ISO 75-2
1.8 MPa, unannealed, 3.18mm	250	°C	ASTM D648

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.	5.0 mm/min	
2.	Type 1, 5.1 mm/min	
3.	Type 1, 5.1 mm/min	
4.	25 mm/min	

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