

Nymax™ GF 1200 A 55 HS Black 13

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 Packing, 55% packing by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture ¹	221	MPa	ASTM D638
-- ²	209	MPa	ISO 527
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus			
-- ⁴	16200	MPa	ISO 178
--	15200	MPa	ASTM D790
Flexural Strength	310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18mm, injection molding	91	J/m	ASTM D256A
--	11	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.18mm	257	°C	ASTM D648
1.8 MPa, not annealed	248	°C	ISO 75-2
1.8 MPa, unannealed, 3.18mm	248	°C	ASTM D648
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. | 5.0 mm/min |
| 3. | Type 1, 5.1 mm/min |
| 4. | 25 mm/min |

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