

Nymax™ GF 600 A 33 Black 28 V

Polyamide 6

PolyOne Corporation

Message:

Nymaxm of glass fiber reinforced nylon 6 polymer®GF600 series products are specially designed for high rigidity, tensile strength and toughness applications, and their surface appearance is improved compared with nylon 6/6 polymer. According to the required stiffness characteristics, these materials have a variety of strength levels to choose from and are easy to process in most standard thermoplastic processing equipment.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Features	Good weather resistance		
	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	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.0E-3 - 3.0E-3	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture ¹	152	MPa	ASTM D638
Fracture	154	MPa	ISO 527-2
Tensile Elongation			
Yield ²	3.0	%	ASTM D638
Yield	2.5	%	ISO 527-2
Flexural Modulus			
--	8270	MPa	ASTM D790
--	8900	MPa	ISO 178
Flexural Strength	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18mm, injection molding	80	J/m	ASTM D256A
--	10	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, annealed, 3.18mm	200	°C	ASTM D648
1.8 MPa, annealed	204	°C	ISO 75-2/A
Additional Information			
Molded Test Bars: Dry as Molded			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Mold Temperature	48.9 - 93.3	°C	
NOTE			
1.	Type 1, 5.1 mm/min		
2.	Type 1, 5.1 mm/min		

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