

# Next Nylon 6 Prime Series NGM50-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Glass/Mineral Fiber Reinforced Black compound  
Product Applications  
This grade is commonly used in the Automotive industry to mold a large part with a low warpage  
Benefits  
This grade offers an excellent planarity of the end product, Good rigidity with a high dimensional stability.

General Information				
Filler / Reinforcement		Glass\Mineral,50% Filler by Weight		
Features		Good Dimensional Stability		
		High Rigidity		
		Low Warpage		
Uses		Automotive Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.26	--	%	
Across Flow	0.65	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.6	--	%	
Saturation <sup>1</sup>	5.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	105	--		
R-Scale	125	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	135	110	MPa	ASTM D638
Tensile Elongation (Break)	4.0	8.0	%	ASTM D638
Flexural Modulus	8600	--	MPa	ASTM D790
Flexural Strength	175	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	83	130	J/m	ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	215	--	°C	
1.8 MPa, Unannealed	200	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+12	ohms·cm	IEC 60093
Electric Strength	32	--	kV/mm	IEC 60243-1
Comparative Tracking Index	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature - Hot Air Dryer	80.0		°C	
Drying Time	4.0 to 6.0		hr	
Suggested Max Moisture	0.20		%	
Rear Temperature	240 to 250		°C	
Middle Temperature	250 to 260		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	Immersed			

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