

# Next Nylon 6 Prime Series NGM40-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Glass/Mineral Fiber Reinforced Black compound  
Product Applications  
Typically Application includes industrial article requiring Medium rigidity and high dimensional stability.  
Benefits  
Improves dimensional stability and reduces warpage.

General Information				
Filler / Reinforcement		Glass\Mineral,40% Filler by Weight		
Features		Good Dimensional Stability		
		Low Warpage		
		Medium Rigidity		
Uses		Industrial 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	1.48	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.30	--	%	
Across Flow	0.85	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.7	--	%	
Saturation <sup>1</sup>	5.7	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	105	--		
R-Scale	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	120	105	MPa	ASTM D638
Tensile Elongation (Break)	4.0	10	%	ASTM D638
Flexural Modulus	8000	5500	MPa	ASTM D790
Flexural Strength	170	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	78	110	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	185	--	°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	35	30	kV/mm	IEC 60243-1
Comparative Tracking Index	550	550	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	230 to 240		°C	
Middle Temperature	240 to 250		°C	
Front Temperature	250 to 260		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	Immersed			

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