

# Next Nylon 6 Prime Series NX-01GY

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 UnFilled Grey Compound  
Product Applications  
Generally recommended for Industrial and Automobile Application  
Benefits  
It provides a combination of strength, stiffness and toughness properties

General Information				
Features		Rigid, good  Good strength  Good toughness		
Uses		Industrial application  Application in Automobile Field		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Grey		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.13	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.2	--	%	ASTM D955
Transverse flow	1.2	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	2.3	--	%	ASTM D570
Saturation <sup>1</sup>	8.5	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	90	--		ASTM D785
Class r	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	70.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	30	> 50	%	ASTM D638
Flexural Modulus	2700	2100	MPa	ASTM D790
Flexural Strength	105	90.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method

Notched Izod Impact (23°C)	49	78	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	180	--	°C	ASTM D648
1.8 MPa, not annealed	75.0	--	°C	ASTM D648
Melting Temperature	222	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	32	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	HB	--		UL 94
Additional Information				
干燥 This grade is not suitable for food contact, medical devices or toy applications				
Injection	Dry	Unit		
Drying Temperature - Hot Air Dryer	80.0		°C	
Drying Time	4.0 - 6.0		hr	
Suggested Max Moisture	0.20		%	
Rear Temperature	230 - 240		°C	
Middle Temperature	240 - 260		°C	
Front Temperature	260 - 270		°C	
Mold Temperature	65.0 - 85.0		°C	
NOTE				
1.	Immersed			

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