

# Next Nylon 6 Prime Series NXH-01NC

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Un Filled Natural Compound  
Product Applications  
This Grade is used in all sectors of industry Fasteners, clip, gears, Bobbin Hand mixer cover  
Benefits  
Offering an excellent Flow ability. It is particularly suitable for the production of technical molding with fast injection cycle.

General Information				
Features		Fast Molding Cycle		
		Good Flow		
Uses		Fasteners		
		Gears		
		Industrial Applications		
		Protective Coverings		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
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	--	%	
Across Flow	1.2	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.6	--	%	
Saturation <sup>1</sup>	9.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	70	--		
R-Scale	80	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	75.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	> 50	> 50	%	ASTM D638
Flexural Modulus	3000	2300	MPa	ASTM D790
Flexural Strength	110	95.0	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, Unannealed	150	--	°C	
1.8 MPa, Unannealed	70.0	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	28	--	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
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	60.0 to 80.0		°C	
NOTE				

1. Immersed

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