

Next Nylon 6 Industrial Series NX-02BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 UnFilled Black Compound
Product Applications
Generally recommended for application such as switch parts, Knobs, motor insulation parts, two wheeler mirror housing, fuse box, plugs, buttons, brushes & hardware items
Benefits
It combines good strength and toughness.

General Information				
Features		Good strength		
		Good toughness		
Uses		Plug		
		Insulating material		
		Switch		
		Buttons		
		Shell		
		Knob		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.13	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.3	--	%	ASTM D955
Transverse flow	1.3	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	2.4	--	%	ASTM D570
Saturation ¹	6.5	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	80	--		ASTM D785
Class r	110	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	65.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	20	> 100	%	ASTM D638

Flexural Modulus	2600	2100	MPa	ASTM D790
Flexural Strength	95.0	90.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	59	78	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	175	--	°C	ASTM D648
1.8 MPa, not annealed	70.0	--	°C	ASTM D648
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+12	ohms·cm	IEC 60093
Dielectric Strength	30	--	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	220 - 230		°C	
Middle Temperature	230 - 240		°C	
Front Temperature	250 - 260		°C	
Mold Temperature	65.0 - 85.0		°C	
NOTE				
1.	Immersed			

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