Next Nylon 6 Prime Series NX-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 UnFilled Black Compound
Product Applications
Generally recommended for application such as wire devices, plugs, receptacles, connectors, convoluted tubing, filter housing, hinges & Textiles components
Benefits
Its provide a combination of strength, stiffness and toughness properties as well as excellent chemical and abrasion resistance

General Information	
Features	Rigid, good
	Good strength
	Good wear resistance
	Good chemical resistance
	Good toughness
Uses	Plug
	Wire and cable applications
	Pipe fittings
	Connector
	Shell
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/cm³	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	2.3	--	%	ASTM D570
Saturation [1]	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	80.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	65	> 100	%	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			

Recommended distributors for this material

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