Next Nylon 6 Prime Series NX-01ABK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Un Filled Black Compound
Product Applications
Generally recommended for drapery hardware, gears, fitting, furniture casters, bearings & thin parts
Benefits
it possesses a combination of strength, stiffness, toughness properties as well as excellent heat resistance.

General Information				
Features	Good Stiffness Good Toughness High Heat Resistance			
Uses	Bearings Fittings Gears Thin-walled Parts			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.14	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.3	--	%	
Across Flow	1.3	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.0	--	%	
Saturation [1]	9.5	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	95	--		
R-Scale	120	--		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3100	--	MPa	ASTM D638
Tensile Strength	80.0	--	MPa	ASTM D638
Tensile Elongation (Break)	65	--	%	ASTM D638
Flexural Modulus	2900	--	MPa	ASTM D790

Flexural Strength	105	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	49	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	180	--	°C	
1.8 MPa, Unannealed	80.0	--	°C	
Melting Temperature	222	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	38	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-2	--		
3.20 mm	V-2	--		
Glow Wire Flammability Index (0.710 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.710 mm)	960	--	°C	IEC 60695-2-13
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	240 to 250		°C	
Middle Temperature	250 to 260		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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