Next Nylon 6 Industrial Series NX-02ABK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 UnFilled Black Compound
Product Applications
Generally recommended for application such as furniture casters, window hardware, end fitting, wire device, valve, relay and others electric components.
Benefits
It possesses a combination of strength, stiffness and toughness with a medium viscosity.

General Information				
Features	Equilibrium rigidity/toughness Medium viscosity			
Uses	Electrical/Electronic Applications Valve/valve components Doors and Windows			
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	2.1	--	%	ASTM D570
Saturation [1]	6.2	--	%	ASTM D570
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
Class m	85	--		ASTM D785
Class r	115	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength	70.0	--	MPa	ASTM D638
Tensile Elongation (Break)	35	> 100	%	ASTM D638
Flexural Modulus	2700	2200	MPa	ASTM D790
Flexural Strength	110	95.0	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	80.0	--	°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	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
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

Recommended distributors for this material

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