

Next Nylon 6 Prime Series NG30-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Black compound
Product Applications
Typical Applications includes industrial articles and Electric insulating parts
Benefits
Excellent combination between Mechanical and thermal properties

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Uses		Electrical Parts		
		Electronic Insulation		
		Industrial Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.35	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.30	--	%	
Across Flow	0.90	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.1	--	%	
Saturation ¹	6.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	170	110	MPa	ASTM D638
Tensile Elongation (Break)	4.0	7.0	%	ASTM D638
Flexural Modulus	8500	--	MPa	ASTM D790
Flexural Strength	235	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	110	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	215	--	°C	
1.8 MPa, Unannealed	200	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+10	--	ohms	IEC 60093
Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength	30	25	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	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	240 to 250		°C	
Middle Temperature	250 to 260		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	Immersed			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

