

Next Nylon 6 Prime Series NGF25-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description

PA6 Glass Fiber Reinforced FR Black compound

Product Applications

Industrial controls and Electrical insulation system

Benefits

This Red Phosphorous Flame retardent grade provides robust UL-94 VO, While offering good mechanical properties.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 25% filler by weight		
Features		Flame retardancy		
Uses		Electrical/Electronic Applications		
		Electronic insulation		
		Industrial application		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Black		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.39	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.1	--	%	ASTM D955
Transverse flow	0.52	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	1.7	--	%	ASTM D570
Saturation ¹	6.5	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	95	--		ASTM D785
Class r	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	120	90.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	6.0	%	ASTM D638
Flexural Modulus	7500	--	MPa	ASTM D790
Flexural Strength	210	180	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	78	98	J/m	ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	210	--	°C	ASTM D648
1.8 MPa, not annealed	185	--	°C	ASTM D648
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	26	24	kV/mm	IEC 60243-1
Comparative Tracking Index	> 350	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-0	--		UL 94

Additional Information

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Possibles formation of phosphates in humid warm enviroinments.

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	240 - 250	°C
Middle Temperature	250 - 260	°C
Front Temperature	260 - 270	°C
Mold Temperature	65.0 - 85.0	°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



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