Next Nylon 6 Prime Series NGF05-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforce FR Black Compound
Product Applications
Industrial controls and Electrical insulating system
Benefits
This grade provides UL-94 V0 While offering good mechanical properties.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 5.0% 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	1.23	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.65	--	%	ASTM D955
Transverse flow	1.1	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	1.8	--	%	ASTM D570
Saturation [1]	7.5	--	%	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 Modulus	3500	2600	MPa	ASTM D638
Tensile Strength	80.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	6.0	15	%	ASTM D638
Flexural Modulus	3100	2500	MPa	ASTM D790
Flexural Strength	130	85.0	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**

Notched Izod Impact (23°C)	69	98	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	145	--	°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+17	--	ohms·cm	IEC 60093
Dielectric Strength	32	26	kV/mm	IEC 60243-1
Comparative Tracking Index	> 450	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.800 mm	V-0	--		UL 94
1.60 mm	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	IEC 60695-2-12
1.60 mm	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	750	--	°C	IEC 60695-2-13
1.60 mm	750	--	°C	IEC 60695-2-13

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	240 - 250	°C
Mold Temperature	60.0 - 80.0	°C

NOTE

1. Immersed

Recommended distributors for this material

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