Next Nylon 66 Prime Series PGF25-01BK

Polyamide 66

Next Polymers Ltd.

Message:

Description
PA66 Glass Fiber Reinforced FR Black Compound
Product Applications
This Red Phosphorous Flame retardant grades provides robust UL-94 V0 and a full UL Yellow card. This grade is suitable for molding insulating parts for electrical devices, and more generally for a thin parts under stress.
Benefits
High Mechanical Properties, Low optical density of smokes, Excellent Filling qualities

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight
Features	Low Optical Density Flame retardancy
Uses	Thin wall parts Electrical components Electronic insulation
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS compliance
Appearance	Black
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.38	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.50	--	%	ASTM D955
Transverse flow	0.90	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	0.75	--	%	ASTM D570
Saturation [1]	6.4	--	%	ASTM D570

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	105	--		ASTM D785
Class r	125	--		ASTM D785

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	130	100	MPa	ASTM D638
Tensile Elongation (Break)	3.0	5.0	%	ASTM D638
Flexural Modulus	7500	600	MPa	ASTM D790
Flexural Strength	210	140	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	83	98	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	260	--	°C	ASTM D648
1.8 MPa, not annealed	250	--	°C	ASTM D648
Melting Temperature	262	--	°C	ASTM D2117
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	26	25	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.800 mm)	V-0	--		UL 94

Additional Information

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This grade is not suitable for food contact, medical devices or toy applicationsPossible Formation of Phosphates in Humid warm environments

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	270 - 275	°C
Middle Temperature	275 - 280	°C
Front Temperature	275 - 280	°C
Mold Temperature	70.0 - 100	°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


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