Next Nylon 6 Prime Series NGF25-01NC

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced FR Natural Compound (Halogen & Phosphorous Free)
Product Applications
This grade is used for Electrical/Electronics Industries such as: switch parts coil former, Energy meter parts MCB Housing etc
Benefits
Excellent combination between Electrical and mechanical property

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight			
Features	Good electrical performance Phosphorus content, low (to none) Halogen-free			
Uses	Electrical/Electronic Applications Shell			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS compliance			
Appearance	Natural color			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.42	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.20	--	%	ASTM D955
Transverse flow	0.60	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	1.6	--	%	ASTM D570
Saturation [1]	5.2	--	%	ASTM D570
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
Class m	110	--		ASTM D785
Class r	120	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength	120	85.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	5.0	%	ASTM D638
Flexural Modulus	6500	5100	MPa	ASTM D790
Flexural Strength	160	120	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	205	--	°C	ASTM D648
1.8 MPa, not annealed	165	--	°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	--	ohms·cm	IEC 60093
Dielectric Strength	26	24	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				

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	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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