Next Nylon 6 Prime Series NGF2 20-01GY

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced FR Grey Compound (Halogen & Phosphorous free)
Product Applications
This grade is used for Electrical and Electronics industries such as Switch parts coil former, Energy meter parts MCB Housing etc
Benefits
Good Flow and processability & excellent combination between electrical and Mechanical property.

General Information				
Filler / Reinforcement	Glass Fiber,20% Filler by Weight			
Features	Flame Retardant Good Flow Good Processability Halogen Free Low (to None) Phosphorus Content			
Uses	Electrical/Electronic Applications Housings			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Grey			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.32	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.0	--	%	
Across Flow	0.60	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.0	--	%	
Saturation [1]	6.5	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	120	--		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	5800	--	MPa	ASTM D638
Tensile Strength	120	80.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	7.0	%	ASTM D638

Flexural Modulus	5600	2400	MPa	ASTM D790
Flexural Strength	180	150	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	78	120	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	210	--	°C	
1.8 MPa, Unannealed	170	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	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-2	--		UL 94
Glow Wire Flammability Index (0.800 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	750	--	°C	IEC 60695-2-13
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	250 to 260		°C	
Middle Temperature	260 to 270		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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