Next Nylon 6 Industrial Series NG30-02WH

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced White compound
Product Applications
This grade is used for industrial and electrical insulating parts and Heavy duty application
Benefits
Good Balance Strength, stiffness and thermal property with excellent moldability/surface aesthetics

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Balanced Stiffness/Toughness Electrically Insulating Good Moldability Pleasing Surface Appearance
Uses	Industrial Applications Insulation
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	White
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.36	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.30	--	%	
Across Flow	0.85	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.2	--	%	
Saturation [1]	7.5	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	105	--		
R-Scale	125	--		

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	140	95.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	6.0	%	ASTM D638
Flexural Modulus	8500	--	MPa	ASTM D790
Flexural Strength	200	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	120	--	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	215	--	°C	
1.8 MPa, Unannealed	190	--	°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	--	ohms·cm	IEC 60093
Electric Strength	25	--	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.800 mm)	HB	--		UL 94
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	240 to 250		°C	
Middle Temperature	250 to 260		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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