Next Nylon 6 Industrial Series NG30-02ABK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Black compound
Product Applications
This grade is used for industrial and electrical insulating parts and Heavy duty application such as brake fluid reservoir, pillon handels, gears, cams, chair base etc
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 Good Moldability Pleasing Surface Appearance			
Uses	Automotive Applications Cams Electrical Parts Gears Industrial Applications			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
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	210	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	98	--	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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