Next Nylon 6 Industrial Series NG10-02BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Black Compound
Product Applications
It is generally recommended for Automobile application such as cooling fan & Power tool housing, hose clamps etc
Benefits
Good Toughness in combination with a balance strength.

General Information				
Filler / Reinforcement	Glass Fiber,10% Filler by Weight			
Features	Good Toughness			
Uses	Automotive Applications Housings			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.20	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.40	--	%	
Across Flow	1.1	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.1	--	%	
Saturation [1]	6.2	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	120	--		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength	80.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	15	%	ASTM D638
Flexural Modulus	5100	2300	MPa	ASTM D790
Flexural Strength	140	--	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	59	98	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	190	--	°C	
1.8 MPa, Unannealed	165	--	°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+15	ohms·cm	IEC 60093
Electric Strength	25	20	kV/mm	IEC 60243-1
Comparative Tracking Index	550	--	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	230 to 240		°C	
Middle Temperature	240 to 250		°C	
Front Temperature	250 to 260		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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