Next Nylon 6 Prime Series NG15-01ABK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Black Compound
Product Applications
This grade is used for internal gas pressure application and Automotive components such as sreering column, Telecom coil spools and knobs, power tools accessories and insulation parts
Benefits
This grade offering excellent combination between Thermal and Mechanical properties.

General Information				
Filler / Reinforcement	Glass Fiber,15% Filler by Weight			
Uses	Automotive Applications Insulation Knobs Power/Other Tools Telecommunications			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.23	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.35	--	%	
Across Flow	1.1	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.1	--	%	
Saturation [1]	7.8	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	120	--		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength	130	85.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	10	%	ASTM D638
Flexural Modulus	6200	3800	MPa	ASTM D790
Flexural Strength	178	135	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**

Notched Izod Impact (23°C)	59	110	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	220	--	°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	1.0E+15	ohms·cm	IEC 60093
Electric Strength	30	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 265		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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