Next Nylon 6 Prime Series NGBMS1 35-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber/Beads Reinforced MOS2 Filled Black compound
Product Applications
Housing element, covers, relais bearers, axle spindle casing which demands medium level of toughness, stiffness and low warpage.
Benefits
High dimensional stability & good wear resistance.

General Information				
Filler / Reinforcement	Glass Bead\Glass Fiber,35% Filler by Weight			
Additive	Molybdenum Disulfide Lubricant			
Features	Good Dimensional Stability Good Wear Resistance Low Warpage			
Uses	Housings Protective Coverings			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.40	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.24	--	%	
Across Flow	0.50	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.9	--	%	
Saturation [1]	7.1	--	%	
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	95.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	7.0	%	ASTM D638
Flexural Modulus	6800	--	MPa	ASTM D790
Flexural Strength	220	--	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	210	--	°C	
1.8 MPa, Unannealed	185	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+10	--	ohms	IEC 60093
Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength	29	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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