Next Nylon 6 Prime Series NG40-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Black compound
Product Applications
This product was developed for the application on parts where good mechanical property, superficial aspect and dimensional stability are required.
Benefits
Good Thermal resistance, Execellent dimensional stability and High strength

General Information				
Filler / Reinforcement	Glass Fiber,40% Filler by Weight			
Features	Good Dimensional Stability Pleasing Surface Appearance			
Uses	Engineering Parts			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Specific Gravity	1.45	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.32	--	%	
Across Flow	0.88	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.4	--	%	
Saturation [1]	4.5	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	115	--		
R-Scale	125	--		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength	190	130	MPa	ASTM D638
Tensile Elongation (Break)	4.0	7.0	%	ASTM D638
Flexural Modulus	11000	7500	MPa	ASTM D790
Flexural Strength	250	--	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	170	250	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	210	--	°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+13	ohms·cm	IEC 60093
Electric Strength	25	20	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	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	250 to 260		°C	
Front Temperature	260 to 270		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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