Next Nylon 6 Prime Series NGIM30-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Impact Modified Black compound
Product Applications
Typical Applications includes automotive airbag housing and half shells for suitcases
Benefits
Having very high rigidity and impact strength.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	High Impact Resistance High Rigidity
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	1.32	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.39	--	%	
Across Flow	1.0	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.0	--	%	
Saturation [1]	6.2	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	--		ASTM D785

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	145	100	MPa	ASTM D638
Tensile Elongation (Break)	4.5	10	%	ASTM D638
Flexural Modulus	7400	--	MPa	ASTM D790
Flexural Strength	210	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-30°C	150	--	J/m	

23°C	200	310	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	220	--	°C	
1.8 MPa, Unannealed	200	--	°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	26	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	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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