

Next Nylon 6 Industrial Series NGIM15-02BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Glass Fiber Reinforced Impact modified Black Compound
Product Applications
It is generally recommended for application such as window hardware, Wheel chairs wheel, Bicycle wheel, Power tool housing, hose clamps etc
Benefits
Good Toughness in combination with a balance strength.

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Strength		
		Good Toughness		
Uses		Hose Fittings		
		Housings		
		Wheels		
		Windows & Doors		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.22	--	g/cm ³	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	90.0	60.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	15	%	ASTM D638
Flexural Modulus	5400	2600	MPa	ASTM D790
Flexural Strength	155	--	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	88	150	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	205	--	°C	
1.8 MPa, Unannealed	185	--	°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			

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