Next Nylon 66 Prime Series PST-01BK

Polyamide 66

Next Polymers Ltd.

Message:

Description
PA66 UnFilled Super Tough Black Compound
Product Applications
This grade is widely used for: Sports and leisure applications ski component, ski and surf binding, Toy application such as bumper of remote controlled car and battery gasket, Fastners etc
Benefits
High impact resistance even at low temperature

General Information	
Features	Good Toughness High Impact Resistance Low Temperature Impact Resistance
Uses	Fasteners Sporting Goods Toys
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.08	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.5	--	%	
Across Flow	1.5	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.2	--	%	
Saturation [1]	6.2	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	70	--		
R-Scale	105	--		

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	62.0	44.0	MPa	ASTM D638
Tensile Elongation (Break)	45	> 50	%	ASTM D638
Flexural Modulus	2000	1100	MPa	ASTM D790
Flexural Strength	78.0	70.0	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	No Break	--		ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	135	--	°C	
1.8 MPa, Unannealed	65.0	--	°C	
Melting Temperature	260	--	°C	ASTM D2117
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+13	ohms·cm	IEC 60093
Electric Strength	30	--	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	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

Recommended distributors for this material

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