

Next Nylon 6 Prime Series NST45-01BK

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Un Filled Super Tough Heat Stabilized Black compound
Product Applications
Typical application such as cable and rope jacketing. Hose inners cores, fasteners & ski binding parts.
Benefits
High flexibility & good heat stability.

General Information				
Features		Good Flexibility Heat Stabilized		
Uses		Fasteners Industrial Cable Jacketing Sporting Goods		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.05	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.95	--	%	
Across Flow	1.4	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.4	--	%	
Saturation ¹	7.8	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	95	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	850	400	MPa	ASTM D638
Tensile Strength	45.0	32.0	MPa	ASTM D638
Tensile Elongation (Break)	> 50	> 200	%	ASTM D638
Flexural Modulus	850	400	MPa	ASTM D790
Flexural Strength	50.0	35.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256

-40°C	140 J/m	No Break		
23°C	780 J/m	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	85.0	--	°C	
1.8 MPa, Unannealed	45.0	--	°C	
Melting Temperature	218	--	°C	ASTM D2117
CLTE				ASTM D696
Flow : 23 to 55°C	1.3E-4	--	cm/cm/°C	
Transverse : 23 to 55°C	1.4E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	32	--	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	220 to 230		°C	
Middle Temperature	230 to 235		°C	
Front Temperature	235 to 240		°C	
Mold Temperature	45.0 to 65.0		°C	
NOTE				
1.	Immersed			

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