

Next Nylon 6 Prime Series NST35-01NC

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Un Filled Super Tough Natural Compound
Product Applications
It is suitable for all sectors industries, Bowling pin, Brake drum, Inline skate part
Benefits
This grade has the highest level impact strength and balanced Mechanical properties.

General Information				
Features		High Impact Resistance Ultra High Toughness		
Uses		Automotive Applications Sporting Goods		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.08	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.2	--	%	
Across Flow	1.2	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.9	--	%	
Saturation ¹	8.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	80	--		
R-Scale	110	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	50.0	35.0	MPa	ASTM D638
Tensile Elongation (Break)	60	> 100	%	ASTM D638
Flexural Modulus	1600	1300	MPa	ASTM D790
Flexural Strength	70.0	45.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	No Break	No Break		ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	120	--	°C	
1.8 MPa, Unannealed	50.0	--	°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	--	ohms·cm	IEC 60093
Electric Strength	27	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 265		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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