

Next Nylon 6 Prime Series NXIM-01NC

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Un Filled Impact modified Natural Compound
Product Applications
Generally recommended for automotive component and industrial parts. cold weather and high impact supports gear
Benefits
Excellent Mechanical properties with good impact strength.

General Information				
Features		Good Impact Resistance		
		Good Weather Resistance		
Uses		Automotive Applications		
		Industrial Applications		
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	1.10	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.2	--	%	
Across Flow	1.4	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.1	--	%	
Saturation ¹	8.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	115	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	65.0	40.0	MPa	ASTM D638
Tensile Elongation (Break)	40	60	%	ASTM D638
Flexural Modulus	2600	--	MPa	ASTM D790
Flexural Strength	105	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-30°C	88	--	J/m	
23°C	110 J/m	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	145	--	°C	
1.8 MPa, Unannealed	65.0	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	25	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	220 to 230		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	240 to 250		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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