

Next Nylon 66 Prime Series PXH-01NC

Polyamide 66

Next Polymers Ltd.

Message:

Description
PA66 UnFilled Natural Compound
Product Applications
Typical application include fast processing high stress technical parts or electrically insulating parts.
Benefits
This grade has excellent flow and improved ambidient and low temperature toughness.

General Information				
Features		High Flow		
		Low Temperature Toughness		
Uses		Electrical Parts		
		Electronic Insulation		
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	1.14	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.4	--	%	
Across Flow	1.4	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.2	--	%	
Saturation ¹	6.7	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	80	--		
R-Scale	115	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	85.0	65.0	MPa	ASTM D638
Tensile Elongation (Break)	30	> 50	%	ASTM D638
Flexural Modulus	3200	2900	MPa	ASTM D790
Flexural Strength	120	85.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	59	88	J/m	ASTM D256

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	200	--	°C	
1.8 MPa, Unannealed	75.0	--	°C	
Melting Temperature	260	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+15	ohms·cm	IEC 60093
Electric Strength	22	--	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 275		°C	
Front Temperature	275 to 280		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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