

Next Nylon 66 Prime Series PXF-01NC

Polyamide 66

Next Polymers Ltd.

Message:

Description
PA66 Un Filled FR Natural Compound

Product Applications
Typical Application includes Terminal box, Electrical cooling fan, and housing Fuse Box, and carriers etc

Benefits
Good heat aging characteristics RTI (Mechanical) listing up to 140 *C, Halogen and Red phosphorous Free, Excellent CTI Value, Easy processing, V0 Listing at 0.4mm

General Information				
Features		Flame Retardant		
		Good Heat Aging Resistance		
		Good Processability		
		Halogen Free		
		Low (to None) Phosphorus Content		
Uses		Electrical Parts		
		Housings		
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	1.18	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.1	--	%	
Across Flow	1.1	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	1.5	--	%	
Saturation ¹	7.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3600	2100	MPa	ASTM D638
Tensile Strength	80.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	6.0	15	%	ASTM D638
Flexural Modulus	3200	1900	MPa	ASTM D790

Flexural Strength	110	80.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.00	9.00	kJ/m ²	ASTM D256
Notched Izod Impact (23°C)	49	78	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	225	--	°C	
1.8 MPa, Unannealed	85.0	--	°C	
Melting Temperature	260	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	18	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-0	--		UL 94
Glow Wire Flammability Index (0.800 mm)	960	--	°C	IEC 60695-2-12
Oxygen Index	28	--	%	ASTM D2863
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 265		°C	
Middle Temperature	265 to 270		°C	
Front Temperature	265 to 270		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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