

# Next Nylon 6 Prime Series NGF20-01NC

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Glass Fiber Reinforced FR Natural Compound  
Product Applications  
This grade is used for Electrical/Electronics Industries such as: switch parts coil former, Energy meter parts MCB Housing etc  
Benefits  
Excellent combination between Electrical and mechanical property

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 20% filler by weight		
Features		Good electrical performance		
Uses		Electrical/Electronic Applications		
		Shell		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.40	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.20	--	%	ASTM D955
Transverse flow	0.60	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	1.8	--	%	ASTM D570
Saturation <sup>1</sup>	5.9	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	110	--		ASTM D785
Class r	125	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	110	75.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	6.0	%	ASTM D638
Flexural Modulus	6100	4800	MPa	ASTM D790
Flexural Strength	140	120	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	78	98	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	200	--	°C	ASTM D648
1.8 MPa, not annealed	150	--	°C	ASTM D648
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+16	--	ohms	IEC 60093
Volume Resistivity	1.0E+16	--	ohms·cm	IEC 60093
Dielectric Strength	26	24	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
Additional Information				

干燥  
This grade is not suitable for food contact, medical devices or toy applications

Injection	Dry	Unit	
Drying Temperature - Hot Air Dryer	80.0	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	240 - 250	°C	
Middle Temperature	250 - 260	°C	
Front Temperature	260 - 270	°C	
Mold Temperature	65.0 - 85.0	°C	

NOTE

1. Immersed

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