

# Next Nylon 6 Prime Series NG30-01RD

Polyamide 6

Next Polymers Ltd.

Message:

Description  
PA6 Glass Fiber Reinforced Red Compound  
Product Applications  
This Grade is used in all sector of industry. It is used in Automotive industry and Electric sectors.  
Benefits  
This Product offering a Excellent combination between Thermal and Mechanical properties

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Red		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.36	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.30	--	%	
Across Flow	0.85	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	2.3	--	%	
Saturation <sup>1</sup>	6.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	125	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	170	110	MPa	ASTM D638
Tensile Elongation (Break)	4.0	7.0	%	ASTM D638
Flexural Modulus	8800	6500	MPa	ASTM D790
Flexural Strength	235	180	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	120	190	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method

Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	215	--	°C	
1.8 MPa, Unannealed	205	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+10	--	ohms	IEC 60093
Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength	30	25	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	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 270		°C	
Mold Temperature	80.0 to 100		°C	
NOTE				
1.	Immersed			

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