

Next Nylon 66 Prime Series PGF30-01NC

Polyamide 66

Next Polymers Ltd.

Message:

Description

PA66 Glass Fiber Reinforced FR Natural Compound

Product Applications

This product is ideally suited for Appliances, Industrial control, Power distribution application such as MCCB and Connectors. The long term thermal performance of this grade also make it ideal for under- the -Bonnet Auto application where it can withstand temperature of 160 Deg. °c for over 6000 Hrs.

Benefits

This Halogen & Red phosphorous Free flame retardent grade combines excellent mechanical properties with outstanding flame retardency and Electrical performance.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Features	Flame Retardant			
	Good Electrical Properties			
	Halogen Free			
	Low (to None) Phosphorus Content			
Uses	Appliances			
	Automotive Under the Hood			
	Connectors			
	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	1.46	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.30	--	%	
Across Flow	0.80	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	0.73	--	%	
Saturation ¹	5.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	125	--		
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	11700	8400	MPa	ASTM D638
Tensile Strength	150	115	MPa	ASTM D638
Tensile Elongation (Break)	3.0	5.0	%	ASTM D638
Flexural Modulus	9500	7800	MPa	ASTM D790
Flexural Strength	210	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	74	98	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	260	--	°C	
1.8 MPa, Unannealed	245	--	°C	
Melting Temperature	263	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+17	--	ohms · cm	IEC 60093
Electric Strength	32	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.800 mm	V-0	--		
1.60 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	775	--	°C	
1.60 mm	775	--	°C	
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 280		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	60.0 to 80.0		°C	
NOTE				
1.	Immersed			

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