

Next Nylon 66 Prime Series PGF50-01NC

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 where it can with stand temperature of 165 Deg.c for over 6000 Hrs.

Benefits
This Halogen & Red phosphorous Free flamme retardent grade combines excellent all round mechanical properties, Long term Thermal performance with outstanding flame retardency and Electrical prformance.

General Information				
Filler / Reinforcement		Glass Fiber,50% 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	1.64	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.20	--	%	
Across Flow	0.45	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	0.80	--	%	
Saturation ¹	5.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	110	--		
R-Scale	125	--		
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	12500	9500	MPa	ASTM D638
Tensile Strength	180	135	MPa	ASTM D638
Tensile Elongation (Break)	3.0	5.0	%	ASTM D638
Flexural Modulus	11000	8500	MPa	ASTM D790
Flexural Strength	250	210	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	110	150	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	255	--	°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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