

Next Nylon 66 Prime Series PGF25-01NC

Polyamide 66

Next Polymers Ltd.

Message:

Description

PA66 Glass Fiber Reinforced FR Natural Compound

Product Applications

Generally suitable for molding insulating parts for electric devices, connectors, switch units, industrial controls etc

Benefits

Very good combination Mechanical and Electrical properties

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Flame Retardant		
		Good Electrical Properties		
Uses		Connectors		
		Electronic Insulation		
		Switches		
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	1.38	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.50	--	%	
Across Flow	0.90	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	0.75	--	%	
Saturation ¹	5.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	105	--		
R-Scale	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	6500	MPa	ASTM D638
Tensile Strength	130	105	MPa	ASTM D638
Tensile Elongation (Break)	3.0	6.0	%	ASTM D638
Flexural Modulus	7500	6000	MPa	ASTM D790
Flexural Strength	250	160	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	78	88	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	250	--	°C	
Melting Temperature	262	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+16	--	ohms·cm	IEC 60093
Electric Strength	25	--	kV/mm	IEC 60243-1
Comparative Tracking Index	> 375	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-0	--		UL 94
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	725	--	°C	IEC 60695-2-13
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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