

Next Nylon 6 Prime Series NXF2-01D.GY.

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 Un Filled FR Dark Gray Compound

Product Applications
This grade is used for Electric sectors such as MCCB Housing, connectors, switches and sockets

Benefits
This Grades is Halogen and Red phosphorus free. Fire resistant flame retardent. It is particularly suitable for equipment requiring robust glow wire resistance with excellent molding and electric performance.

General Information				
Features		Good formability		
		Good electrical performance		
		Phosphorus content, low (to none)		
		Halogen-free		
		Flame retardancy		
Uses		Connector		
		Shell		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Dark gray		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.15	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	1.2	--	%	ASTM D955
Transverse flow	1.2	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	1.1	--	%	ASTM D570
Saturation ¹	6.3	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	70	--		ASTM D785
Class r	85	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	80.0	45.0	MPa	ASTM D638
Tensile Elongation (Break)	20	> 50	%	ASTM D638
Flexural Modulus	3300	11500	MPa	ASTM D790

Flexural Strength	112	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	78	110	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	125	--	°C	ASTM D648
1.8 MPa, not annealed	75.0	--	°C	ASTM D648
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-2	--		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	230 - 240		°C	
Middle Temperature	240 - 250		°C	
Front Temperature	250 - 260		°C	
Mold Temperature	45.0 - 65.0		°C	
NOTE				
1.	Immersed			

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