

Next Nylon 6 Prime Series NG25-01NC

Polyamide 6

Next Polymers Ltd.

Message:

- Description
- PA6 Glass Fiber Reinforced Natural compound
- Product Applications
- This product is used for automotive component
- Benefits
- Excellent combination Mechanical property with thermal property

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 25% filler by weight		
Uses		Application in Automobile Field		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS compliance		
Appearance		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.32	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.35	--	%	ASTM D955
Transverse flow	0.85	--	%	ASTM D955
Water Absorption				ASTM D570
23°C, 24 hr	2.0	--	%	ASTM D570
Saturation ¹	8.5	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
Class m	105	--		ASTM D785
Class r	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8500	6500	MPa	ASTM D638
Tensile Strength	150	100	MPa	ASTM D638
Tensile Elongation (Break)	4.0	6.0	%	ASTM D638
Flexural Modulus	7800	6100	MPa	ASTM D790
Flexural Strength	220	--	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, not annealed	220	--	°C	ASTM D648
1.8 MPa, not annealed	205	--	°C	ASTM D648
Melting Temperature	220	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Dielectric Strength	26	24	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (0.710 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.710 mm)	750	--	°C	IEC 60695-2-13

Additional Information

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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	260 - 270	°C
Middle Temperature	270 - 280	°C
Front Temperature	270 - 280	°C
Mold Temperature	65.0 - 85.0	°C

NOTE

1. Immersed

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