

Nypol® PA A3 G13 NTLA010 NR406

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 natural reinforced with 13% fiberglass, good set of thermal and mechanical properties. Ideal for injection molding.

General Information				
Filler / Reinforcement		Glass Fiber,13% Filler by Weight		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6 GF13<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.23	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.80	--	%	ASTM D955
Water Absorption (Equilibrium)	1.7	--	%	ASTM D570
Ash Content	11 to 15	--	%	ASTM D2584
Charpy Unnotched Impact Strength				ASTM D256
-30°C	30.0	40.0	kJ/m ²	
23°C	35.0	75.0	kJ/m ²	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	121	83.0	MPa	ASTM D638
Tensile Elongation (Break)	3.0	8.0	%	ASTM D638
Flexural Modulus	4800	2700	MPa	ASTM D790
Flexural Strength	165	115	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	4.0	4.0	kJ/m ²	
23°C	4.5	6.0	kJ/m ²	
Notched Izod Impact (Area)				ASTM D256
-30°C	4.00	4.00	kJ/m ²	
23°C	4.50	6.00	kJ/m ²	
Unnotched Izod Impact				ASTM D256
-30°C	35	30	J/m	
23°C	40	55	J/m	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	258	--	°C	

1.8 MPa, Unannealed	242	--	°C	
Vicat Softening Temperature	257	--	°C	ISO 306/B
Melting Temperature	250 to 265	--	°C	ASTM D2117
CLTE				ASTM E831
Flow : 23 to 55°C	4.2E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	7.7E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	--	ohms·cm	ASTM D257
Electric Strength (2.00 mm)	25	--	kV/mm	IEC 60243-1
Relative Permittivity (100 Hz)	3.90	--		IEC 60250
Dissipation Factor (100 Hz)	0.013	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	285 to 305		°C	
Mold Temperature	70.0 to 120		°C	

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