

Nypol® PA A3 G25 NTLA010 NR342

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 natural reinforced with 25% fiberglass, good set of thermal and mechanical properties. Ideal for injection molding.

General Information				
Filler / Reinforcement	Glass Fiber,25% Filler by Weight			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6.6 GF25<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.32	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 1.1	--	%	ASTM D955
Water Absorption (Equilibrium)	2.0	--	%	ASTM D570
Ash Content	23 to 27	--	%	ASTM D2584
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	180	120	MPa	ASTM D638
Tensile Elongation (Break)	3.0	7.0	%	ASTM D638
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (Area)				ASTM D256
-30°C	7.00	7.00	kJ/m ²	
27°C	10.0	11.0	kJ/m ²	
Unnotched Izod Impact (Area)				ASTM D256
-30°C	60.0	45.0	kJ/m ²	
27°C	60.0	80.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	261	--	°C	
1.8 MPa, Unannealed	252	--	°C	
Vicat Softening Temperature	257	--	°C	ASTM D1525 ¹
Melting Temperature	250 to 265	--	°C	ASTM D2117
CLTE				ASTM D696
Flow : 23 to 55°C	1.1E-4	--	cm/cm/°C	
Transverse : 23 to 55°C	3.3E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	--	ohms · cm	ASTM D257

Relative Permittivity (100 Hz)	3.60	--		IEC 60250
Dissipation Factor (100 Hz)	7.0E-3	--		ASTM D150
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	
NOTE				

1. Loading 2 (50 N)

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