

# Nypol® PA B3 G25 HS PRTA011 NT355

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

## Message:

Polyamide 6 in black color reinforced with 25% of fiberglass, heat stabilized, lubricated, good set of thermal properties, electrical and mechanical. Ideal for injection molding.

General Information				
Filler / Reinforcement	Glass Fiber,25% Filler by Weight			
Additive	Heat Stabilizer Lubricant			
Features	Good Electrical Properties Heat Stabilized Lubricated			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6 GF25<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.29 to 1.31	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.55	--	%	ASTM D955
Water Absorption (Equilibrium)	1.0	--	%	ASTM D570
Ash Content	23 to 27	--	%	ASTM D2584
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	135	90.0	MPa	ASTM D638
Tensile Elongation (Break)	3.5	5.0	%	ASTM D638
Flexural Modulus	6500	4100	MPa	ASTM D790
Flexural Strength	210	120	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	110	180	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	192	--	°C	ASTM D648
Melting Temperature	210 to 225	--	°C	ASTM D2117
Flammability	Dry	Conditioned	Test Method	
Flame Rating	HB	--	UL 94	
Injection	Dry	Unit		
Drying Temperature	90.0		°C	

Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	230 to 240	°C
Mold Temperature	70.0 to 90.0	°C

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