

# Nypol® PA A3 G50 HS RH PRTA012 NR439

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

## Message:

Polyamide 6.6 in black color reinforced with 50% of fiberglass, heat stabilized, resistance to hydrolysis and great superficial completion. Good set of thermal properties, electrical and mechanical. Ideal for injection molding.

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Additive	Heat Stabilizer Hydrolysis Resistant			
Features	Good Electrical Properties Heat Stabilized Hydrolysis Resistant			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6.6 GF50<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.56 to 1.57	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20	--	%	ASTM D955
Water Absorption (Equilibrium, 2.00 mm)	1.1	--	%	ASTM D570
Ash Content	48 to 52	--	%	ASTM D2584
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	250	200	MPa	ASTM D638
Tensile Elongation (Break)	2.5	3.4	%	ASTM D638
Flexural Modulus	16800	12900	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	16	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact (Area) (23°C)	18.0	20.0	kJ/m <sup>2</sup>	ASTM D256
Unnotched Izod Impact (Area) (-30°C)	15.0	15.0	kJ/m <sup>2</sup>	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	257	--	°C	ASTM D648
Melting Temperature	250 to 265	--	°C	ASTM D2117
Injection	Dry	Unit		

Drying Temperature	90.0	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	285 to 295	°C
Mold Temperature	100 to 110	°C

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