

# Nypol® PA B3 G10 PRTA011 NT390 MSP

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6 in black color reinforced with 10% of fiberglass, good set of thermal properties, electrical and mechanical. Ideal for injection molding.

General Information				
Filler / Reinforcement	Glass Fiber,10% Filler by Weight			
Features	Good Electrical Properties			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6 GF10<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.19 to 1.21	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.85 to 1.0	--	%	ASTM D955
Water Absorption (Equilibrium)	1.2	--	%	ASTM D570
Ash Content	8.0 to 12	--	%	ASTM D2584
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	100	65.0	MPa	ASTM D638
Tensile Elongation (Break)	5.5	8.0	%	ASTM D638
Flexural Modulus	4600	3000	MPa	ASTM D790
Flexural Strength	155	80.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	75	140	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	155	--	°C	ASTM D648
Melting Temperature	210 to 225	--	°C	ASTM D2117
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	2.0		hr	
Suggested Max Moisture	0.020		%	
Processing (Melt) Temp	220 to 240		°C	
Mold Temperature	40.0 to 80.0		°C	

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Recommended distributors for this material

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