

# Nypol® PA B3 T40 NTLA010 NT395

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

## Message:

Polyamide 6 natural with 40% of mineral reinforced. Good set of thermal properties, lubricated, electrical and mechanical. Ideal for injection molding.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Additive	Lubricant		
Features	Good Electrical Properties		
	Lubricated		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PA 6 MD40<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.0	%	ASTM D955
Water Absorption (Equilibrium)	0.90 to 1.1	%	ASTM D570
Ash Content	38 to 42	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648
Melting Temperature	210 to 225	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.20	%	

Processing (Melt) Temp	254 to 271	°C
Mold Temperature	65.0 to 93.0	°C

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#### Recommended distributors for this material

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