

# Nypol® PA B3 HL NTLA010 NT308

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

## Message:

Standard polyamide 6 with low viscosity (2.7), ideal for injection molding, good set of mechanical properties with excellent impact resistance and good heat resistance.

General Information			
Features	Good Impact Resistance		
	High Heat Resistance		
	Low Viscosity		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PA 6<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.2 to 1.6	%	ASTM D955
Water Absorption (Equilibrium)	1.3	%	ASTM D570
Relative Viscosity - 98% H <sub>2</sub> SO <sub>4</sub>	2.50 to 2.90		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	66.0	°C	ASTM D648
Vicat Softening Temperature	205	°C	ASTM D1525
Melting Temperature	210 to 225	°C	ASTM D2117
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	40.0 to 80.0	°C	

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