

# Petrotene® PP A3 T40 NTLA010 PH320

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene natural 40% mineral reinforced for injection molding, resistant to oil, grease and many solvents, good set of mechanical properties and good dimensional stability.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Grease Resistant		
	Oil Resistant		
	Solvent Resistant		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP MD40<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0	%	ASTM D955
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Ash Content	38 to 42	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	31.0	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup> (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	143	°C	ASTM D1525 <sup>2</sup>
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	40	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	2.0	hr
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	30.0 to 40.0	°C
NOTE		
1.	2°C/min	
2.	Rate B (120°C/h), Loading 1 (10 N)	

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#### Recommended distributors for this material

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