

# Petrotene® PP A3 G20 NTLA010 PH304

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene with 20% fiberglass, ideal for injection molding, resistant to oil, grease and various solvents, has a high tensile strength and higher HDT, and excellent dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Grease Resistant		
	High Strength		
	Oil Resistant		
	Solvent Resistant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03 to 1.07	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D955
Water Absorption (Equilibrium)	1.0 to 2.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	80.0	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)	100	°C	ASTM D648
Continuous Use Temperature	100	°C	
Vicat Softening Temperature	120	°C	ASTM D1525 <sup>1</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)	1.0E-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	60.0 to 80.0	°C

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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