

# Petrotene® PP A2 T20 PRTA011 PH202

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene with 20% mineral reinforced for injection molding, resistant to oil, grease and many solvents, good set of mechanical properties and dimensional stability.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Features	Good Dimensional Stability		
	Grease Resistant		
	Oil Resistant		
	Solvent Resistant		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP MD20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04 to 1.06	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.2 to 5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1	%	ASTM D955
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Ash Content	18 to 22	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	29.0	MPa	ASTM D638
Tensile Elongation (Break, 50°C)	8.0	%	ASTM D638
Flexural Modulus	1900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	42	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>2</sup>			ASTM D648
0.45 MPa, Unannealed	110	°C	
1.8 MPa, Unannealed	68.0	°C	
Vicat Softening Temperature			
--	90.0	°C	ASTM D1525 <sup>3</sup>
--	140	°C	ASTM D1525 <sup>4</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)	2.0E-3		ASTM D150
Injection	Nominal Value	Unit	

Drying Temperature	80.0	°C
Drying Time	4.0	hr
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	60.0 to 80.0	°C

#### NOTE

1. 50 mm/min
2. 2°C/min
3. Rate A (50°C/h), Loading 2 (50 N)
4. Rate B (120°C/h), Loading 1 (10 N)

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