

# Petrotene® PP A2 G20 T10 PRTA011 PH204

## MSP

Polypropylene

Petropol Industry and Trade of Polymers LTDA

### Message:

Polypropylene with 20% fiberglass and 10% mineral filler, ideal for injection molding, resistant to oil, grease and many solvents, good set of mechanical properties and good dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight Mineral,10% Filler by Weight		
Features	Good Dimensional Stability Grease Resistant Oil Resistant Solvent Resistant		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP GF20 MD10<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13 to 1.15	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.1	%	ASTM D955
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	28 to 32	%	ASTM D2584
Operating Temperature	90	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	30.0	MPa	ASTM D638
Tensile Elongation (Break, 50°C)	15	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Vicat Softening Temperature	150	°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)	2.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	60.0 to 80.0	°C	
NOTE			
1.	50 mm/min		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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#### Recommended distributors for this material

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