

# Petrotene® PP A3 G20 PRTA010 PH301

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene with 20% fiberglass in black color, ideal for injection molding, resistant to oil, grease and many 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 Tensile Strength		
	Oil Resistant		
	Solvent Resistant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP GF20<		
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 6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D955
Ash Content	18 to 22	%	ASTM D2584
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	60	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup> (1.8 MPa, Unannealed)	100	°C	ASTM D648
Vicat Softening Temperature	120	°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)	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.	2°C/min	
2.	Rate B (120°C/h), Loading 2 (50 N)	

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#### Recommended distributors for this material

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