

# Petrotene® PP A3 C40 PRTA010 PH386 MSP

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene in black color reinforced with 40% calcium carbonate (CaCO<sub>3</sub>) for injection molding, combination of stiffness, impact and aesthetics of surface, good set of mechanical properties.

General Information			
Filler / Reinforcement	Calcium Carbonate,40% Filler by Weight		
Features	Good Impact Resistance		
	Good Stiffness		
	Pleasing Surface Appearance		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP K40<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.3	%	ASTM D955
Ash Content	38 to 42	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	23.0	MPa	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength (23°C)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	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	100	°C	ASTM D1525 <sup>1</sup>
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	ASTM D257
Dielectric Constant	2.50		ASTM D150
Comparative Tracking Index	> 600	V	DIN 53480
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	

Processing (Melt) Temp	190 to 220	°C
Mold Temperature	60.0 to 80.0	°C
NOTE		
1.	Rate A (50°C/h), Loading 2 (50 N)	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

