

# Petrotene® PP A3 G40 PRTA011 PH366

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene homopolymer black with 40% glass fiber, 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,40% Filler by Weight		
Features	Good Dimensional Stability		
	Grease Resistant		
	High Strength		
	Homopolymer		
	Oil Resistant		
	Solvent Resistant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP GF40<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22 to 1.24	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.35 to 0.40	%	ASTM D955
Water Absorption (Equilibrium)	0.040 to 0.080	%	ASTM D570
Ash Content	38 to 42	%	ASTM D2584
Operating Temperature	100	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7800	MPa	ASTM D638
Tensile Strength	95.0	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5400	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256
Unnotched Izod Impact	550	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup>			ASTM D648
0.45 MPa, Unannealed	155	°C	
1.8 MPa, Unannealed	130	°C	
Vicat Softening Temperature			

--	140	°C	ASTM D1525 <sup>2</sup>
--	145	°C	ASTM D1525 <sup>3</sup>
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	42	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	90.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 240	°C	
Mold Temperature	40.0 to 70.0	°C	
NOTE			
1.	2°C/min		
2.	Rate B (120°C/h), Loading 1 (10 N)		
3.	Rate B (120°C/h), Loading 2 (50 N)		

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