

# Petrotene® PP A3 G40 HF CNZ0207 PH356

Polypropylene

Petropol Industry and Trade of Polymers LTDA

## Message:

Polypropylene with 40% fiberglass, chemically coupled, ideal for injection molding, resistant to oil, grease and many solvents, has a high tensile strength and higher HDT, and excellent stability dimensional, and higher impact.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Chemically Coupled		
	Good Dimensional Stability		
	Grease Resistant		
	High Impact Resistance		
	High Tensile Strength		
	Oil Resistant		
	Solvent Resistant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22 to 1.24	g/cm³	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
Mechanical	Nominal Value	Unit	Test Method
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
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	120	°C	ASTM D648
Continuous Use Temperature	100	°C	
Vicat Softening Temperature	140	°C	ASTM D1525 <sup>1</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	95.0	°C
Drying Time	2.0	hr
Processing (Melt) Temp	190 to 240	°C
Mold Temperature	35.0 to 65.0	°C

#### NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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#### Recommended distributors for this material

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