

Petrotene® PP A3 G30 PRTA011 PH360 MSP

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene homopolymer reinforced with 30% glass fiber suitable for injection molding, good set mechanical properties, aging resistance and excellent resistance to oils and greases.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Heat Aging Resistance		
	Grease Resistant		
	Homopolymer		
	Oil Resistant		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP GF30<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10 to 1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	15 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Water Absorption (Equilibrium)	0.030	%	ASTM D570
Ash Content	28 to 32	%	ASTM D2584
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus ¹ (23°C)	4000	MPa	ASTM D790
Flexural Strength	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	76	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ² (1.8 MPa, Unannealed)	120	°C	ASTM D648
Vicat Softening Temperature	145	°C	ASTM D1525 ³
Electrical	Nominal Value	Unit	Test Method
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. 5.0 mm/min
2. 2°C/min
3. Rate B (120°C/h), Loading 1 (10 N)

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