

Petrotene® PP A3 C40 NTLA010 PH309

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene homopolymer reinforced with 40% calcium carbonate to injection molding, good set of mechanical properties and dimensional stability.

General Information			
Filler / Reinforcement	Calcium Carbonate,40% Filler by Weight		
Features	Good Dimensional Stability		
	Homopolymer		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP + KD40<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18 to 1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.1	%	ASTM D955
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	38 to 42	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	23.0	MPa	ASTM D638
Tensile Elongation ² (Break)	15	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	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 ³ (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Vicat Softening Temperature	100	°C	ASTM D1525 ⁴
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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 230	°C	

Mold Temperature	60.0 to 80.0	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	2°C/min	
4.	Rate B (120°C/h), Loading 1 (10 N)	

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