

Petrotene® PP A3 C60 NTLA010 PH317 MSM

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene homopolymer reinforced with 60% calcium carbonate (CaCO₃) for injection molding, combination of stiffness, impact and aesthetics of surface, good set of mechanical properties.

General Information			
Filler / Reinforcement	Calcium Carbonate,60% Filler by Weight		
Features	Good Impact Resistance		
	Good Stiffness		
	Good Surface Finish		
	Homopolymer		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP+KD60<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20 to 1.26	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	0.50 to 0.80	%	ASTM D955
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	58 to 62	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	40.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	20	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength (23°C)	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	120	°C	
1.8 MPa, Unannealed	70.0	°C	
Vicat Softening Temperature	150	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	40	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	2.0E-3		ASTM D150
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 230	°C
Mold Temperature	60.0 to 80.0	°C

NOTE

1. Rate B (120°C/h), Loading 1 (10 N)

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