

Petrotene® PP A3 C35 BRC0001 PH383

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene in white color reinforced with 35% 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,35% Filler by Weight		
Features	Good Impact Resistance		
	Good Stiffness		
	Pleasing Surface Appearance		
Appearance	White		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP+KD35<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4 to 1.8	%	ASTM D955
Ash Content	33 to 37	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	20	%	ASTM D638
Flexural Modulus	2460	MPa	ASTM D790
Flexural Strength (23°C)	42.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Unnotched Izod Impact (23°C)	600	J/m	ASTM D256
Gardner Impact (23°C)	13.8	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	110	°C	
1.8 MPa, Unannealed	61.1	°C	
Flammability	Nominal Value		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
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