

Petrotene® PP A3 C45 MF NTLA010 PH381

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene with 45% 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,45% Filler by Weight		
Features	Good Impact Resistance		
	Good Stiffness		
	Pleasing Surface Appearance		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP+KD45<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Ash Content	43 to 47	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	219	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield ²	3.8	%	
Break, 50°C	16	%	
Flexural Modulus	2600	MPa	ASTM D790
Flexural Strength ³	356	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)			ASTM D256
-30°C	3.00	kJ/m ²	
23°C	12.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	°C	ASTM D648
Vicat Softening Temperature	59.0	°C	ASTM D1525 ⁴
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 240	°C	
NOTE			
1.	50 mm/min		

2.	50 mm/min
3.	2.0 mm/min
4.	Rate A (50°C/h), Loading 2 (50 N)

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