

Petrotene® PP A2 PRTA010 PH222

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene homopolymer black for injection molding.

General Information			
Features	Homopolymer		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	6.0 to 10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 2.0	%	ASTM D955
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	35.0	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	1600	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-10°C	25	J/m	
23°C	45	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	112	°C	
1.8 MPa, Unannealed	59.0	°C	
Vicat Softening Temperature	125 to 155	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dissipation Factor (1 kHz)	2.0E-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	20.0 to 50.0	°C
NOTE		
1.	Rate A (50°C/h), Loading 1 (10 N)	

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Recommended distributors for this material

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