

Petrotene® PP A1 BRCA001 PH104 MSP

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene standard for injection molding.

General Information			
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)	3.0 to 15	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	20.0	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	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	50.0 to 60.0	°C	ASTM D648
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	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	15.0 to 45.0	°C	
NOTE			

1. Rate A (50°C/h), Loading 1 (10 N)

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