

Petrotene® PP A3 T20 BRC0003 PH377 MSP

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene homopolymer in white color reinforced with 20% talc mineral suitable for injection molding, good set mechanical properties, aging resistance and excellent resistance to oils and greases.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Good Heat Aging Resistance		
	Grease Resistant		
	Homopolymer		
	Oil Resistant		
Appearance	White		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP MD20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0 to 7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1	%	ASTM D955
Ash Content	18 to 22	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	30.0	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	2700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	> 38	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	110	°C	
1.8 MPa, Unannealed	68.0	°C	
Vicat Softening Temperature	140	°C	ASTM D1525 ¹
Melting Temperature	160	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	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	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0	hr
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	60.0 to 80.0	°C
Injection Pressure	70.0 to 120	MPa

NOTE

1. Rate B (120°C/h), Loading 1 (10 N)

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