

Petrotene® PP A3 T40 PRTA011 PH376 MSP

Polypropylene Homopolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene homopolymer with 40% mineral reinforced. Resistant to oil, grease and many solvents, good set of mechanical properties and excellent dimensional stability. Ideal for injection molding.

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Features	Good Dimensional Stability		
	Grease Resistant		
	Homopolymer		
	Oil Resistant		
	Solvent Resistant		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP MD40<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0	%	ASTM D955
Water Absorption (Equilibrium)	0.050	%	ASTM D570
Ash Content	37 to 43	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	31.0	MPa	ASTM D638
Tensile Elongation ² (Break)	12	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	49.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	80.0	°C	
Vicat Softening Temperature			
--	98.0	°C	ASTM D1525 ⁴
--	143	°C	ASTM D1525 ⁵
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)	5.0E-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	60.0 to 80.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2°C/min		
4.	Rate A (50°C/h), Loading 2 (50 N)		
5.	Rate B (120°C/h), Loading 1 (10 N)		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

