

Petrotene® PP T3 CINZA 7743 SB28 PH341

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene loaded with talc 28% barium sulfate for injection molding, good set of mechanical properties and good dimensional stability.

General Information			
Filler / Reinforcement	Barium Sulfate,28% Filler by Weight		
	Talc,3.0% Filler by Weight		
Features	Good Dimensional Stability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03 to 1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0 to 8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2	%	ASTM D955
Water Absorption (Equilibrium)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	22.0	MPa	ASTM D638
Tensile Elongation ² (Break)	28	%	ASTM D638
Flexural Modulus	1960	MPa	ASTM D790
Flexural Strength	44.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ³			ASTM D648
0.45 MPa, Unannealed	130	°C	
1.8 MPa, Unannealed	70.0	°C	
Continuous Use Temperature	80.0	°C	
Vicat Softening Temperature			
--	90.0	°C	ASTM D1525 ⁴
--	134	°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)	2.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	90.0	°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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