

Petrotene® PP A3 T20 NTLA010 PH302

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene natural 20% mineral reinforced for injection molding, resistant to oil, grease and many solvents, good set of mechanical properties and good dimensional stability.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Features	Good Dimensional Stability		
	Grease Resistant		
	Oil Resistant		
	Solvent Resistant		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PP MD20<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04 to 1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0 to 7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90 to 1.2	%	ASTM D955
Water Absorption (Equilibrium)	0.020	%	ASTM D570
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
Flexural Strength	45.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	68.0	°C	ASTM D648
Vicat Softening Temperature	140	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	40	kV/mm	ASTM D149
Dissipation Factor	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

NOTE

1.
- Rate A (50°C/h), Loading 1 (10 N)

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