

Petrotene® PP A3 G18 FR NTLA010 PH325

Polypropylene

Petropol Industry and Trade of Polymers LTDA

Message:

Polypropylene with 18% glass fiber anti-flame, ideal for injection molding, resistant to oil, grease and various solvents, has a high tensile strength and higher HDT, and excellent dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,18% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Dimensional Stability		
	Grease Resistant		
	High Strength		
	Oil Resistant		
	Solvent Resistant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03 to 1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D955
Water Absorption (Equilibrium)	1.0 to 2.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.0	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3000	MPa	ASTM D790
Flexural Strength	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	55	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	ASTM D648
Continuous Use Temperature	100	°C	
Vicat Softening Temperature	120	°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 (1 kHz)	1.0E-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. Rate A (50°C/h), Loading 2 (50 N)

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