

SAMAT 5000A

Polypropylene

POLYROCKS CHEMICAL CO., LTD

Message:

SAMAT™ 5000(+) are halogen-free flame retardant Polypropylene (PP) with phosphorus and nitrogen as the flame retardant elements. Carbonize and gaseous phase retardant mechanisms play the flame retardant performance. The flammability can reach UL94-V0 (0.75mm, 1.5mm and 3.0mm) and pass the water immersion test at 70°C for 168hrs (UL746C) and GWIT 750°C and GWFI 960°C. They have the characteristics of low density of finished products, low smoke and little corrosion to molds. 5000(+) pass UL tests and meet the requirements of RoHS, SVHC, PFOS&PFOA, 16P, Halogen-free and PAHs.

General Information			
Features	Flame Retardant		
	Good Corrosion Resistance		
	Halogen Free		
	Low Density		
	Low Smoke Emission		
Uses	Construction Applications		
	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	2350	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	125	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating ¹			UL 746C, UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	180 to 200	°C	

Mold Temperature	40.0 to 70.0	°C
NOTE		

1. Flammability after water-boiling testing at 70°C for 168 hours

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