

# SAMAT 5003N1

Polypropylene

POLYROCKS CHEMICAL CO., LTD

## Message:

SAMAT™ 5003N (+) are halogen-free environmental polypropylene (PP) with phosphorus and nitrogen as the flame retardant elements. The synergistic effect of coagulation phase and gas phase on flame retardation enhances the flame retardant efficiency, and the catalytic mechanism accelerates the melting and dropping of the system. The flammability can reach UL94-V2 (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°. They have the characteristics of low density of finished products, low smoke and little corrosion to molds. 5003N (+) 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 Parts		
	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.0	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	1600	MPa	ASTM D790
Flexural Strength	43.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	33	J/m	ASTM D256
Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>1</sup>			UL 746C, UL 94
0.750 mm	V-2		
1.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Flammability Index	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13
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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#### Recommended distributors for this material

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