

# SAMAT 5003S2

Polypropylene

POLYROCKS CHEMICAL CO., LTD

## Message:

SAMAT™ 5003S (+) are low-halogen environmental polypropylene (PP) with phosphorus and nitrogen as the flame retardant elements. The synergistic effect of coagulation phase and gas on flame retardation enhances the flame retardant efficiency. The flammability can reach UL94-V2 (1.5mm, 3.0mm), and pass GWIT 750°C and GWFI 850°C. It has the characteristic of low density of finished products, low smoke and little corrosion to molds. 5003S (+) pass the UL tests and meet the requirements of Council of the European Union 2002/29/EC ROHS.

General Information			
Features	Flame Retardant		
	Good Corrosion Resistance		
	Low Density		
	Low Halogen Content		
	Low Smoke Emission		
Uses	Electrical/Electronic Applications		
	Thin-walled Parts		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.0	MPa	ASTM D638
Tensile Elongation (Break)	80	%	ASTM D638
Flexural Modulus	1500	MPa	ASTM D790
Flexural Strength	40.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Flammability Index	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	750	°C	IEC 60695-2-13

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