

Polyrocks 5003N4

Polypropylene
Polyrocks Chemical Co., Ltd

Message:

5003N is halogen-free flame retardant environmental polypropylene with phosphorus and nitrogen as the flame retardant elements. Through synergistic effect of solidifying phase and gas-phase mechanism improve flame retardant performance, and accelerating melting and dripping by catalytic mechanism to play flame retardant performamnce. 5003N flammability can reach UL94 V-2 (1.5mm and 3.0mm), glow-wire test meets GWIT:750/3.0 and GWFI:850/3.0. 5003N has passed UL certification and meet the requirements of RoHS, SVHC, 17P, Halogen-free, PAHs...etc. 5003N has the characteristics of low density of finished products, low smoke, less corrosion to the mould etc.

General Information			
Additive	Flame retardancy 2		
Features	Low density		
	Low smoke		
	Halogen-free		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Home appliance components		
	Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particles		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.1 - 1.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	26.0	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790
Flexural Strength	32.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	V-2		UL 94

3.0 mm	V-2		UL 94
Glow Wire Flammability Index (3.0 mm)	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (3.0 mm)	750	°C	IEC 60695-2-13

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