

Syncure™ System S100NA

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ systems are two part moisture crosslinkable compounds, UL bulletinized, RoHS compliant, easy processing, high strength, colorable cable insulation compound suitable for service entrance cables. Graft resin component of this system has approximate shelf life of 6 months from the date of production. Please consult PolyOne for its use past 6 months.

General Information			
Uses	Wire and cable applications		
Wire Types	USE-2		
	Uses		
Agency Ratings	MIL C-24643		
	UL 854		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm ³	ASTM D792
Gel Content ¹	72	%	ASTM D2765
Tensile strength retention rate			
121°C, 1.91 mm ²	95	%	
158°C, 1.91 mm ³	90	%	
Elongation retention rate			
121°C, 1.91 mm ⁴	90	%	
158°C, 1.91 mm ⁵	85	%	
Deformation (131°C) ⁶	10	%	UL 1581
Catalyst parent mixture-S-1010B ⁷	5.0	%	
Transplant-based resin-S-1054A ⁸	95	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	52		ASTM D2240
Shaw D, 10 seconds	46		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁹ (Yield)	19.3	MPa	ASTM D638
Tensile Elongation ¹⁰ (Break)	400	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
UL Temperature Rating	90	°C	
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant	2.14		ASTM D150
Dissipation Factor	2.0E-3		ASTM D150

Additional Information	Nominal Value	Unit
------------------------	---------------	------

注释:以上情况代表了在30密耳壁的14 AWG上测量得出的典型属性.存放和搬运:包装打开之后应在48小时之内使用,避免自硬化和报废.

NOTE		
1.	Cross-linked PE, Method B (Non-Arbitration Test)	
2.	336 hours, UL standard	
3.	168 hours, UL standard	
4.	336 hours, UL standard	
5.	168 hours, UL standard	
6.	500g,1 hour	
7.	S-1010B	
8.	S-1025A or S-1054A	
9.	Type 4, 510mm/min	
10.	Type 4, 510mm/min	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

