

Syncure™ System S100BL

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ S100BL system is a three part moisture crosslinkable compound. S100BL is a UL bullentinized sunlight resistant, RoHS compliant, low density, black cable insulation compound. 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			
Features	Good UV resistance		
	Good weather resistance		
	Oil resistance		
	Flame retardancy		
Uses	Wire and cable applications		
Wire Types	RHH		
	RHW-2		
	SIS		
	USE-2		
	XHHW-2		
Agency Ratings	UL 44		
	UL 854		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Gel Content ¹	68	%	ASTM D2765
Tensile strength retention (121°C, 1.91mm) ²	95	%	
Elongation retention rate (121°C, 1.91mm) ³	90	%	
Deformation (131°C) ⁴	10	%	UL 1581
Flame test-level			
--	Pass		CSA FT-2
--	Pass		UL 1581
Catalyst parent mixture			
S-1044B ⁵	5.0	%	
V-0022G RoHS ⁶	16	%	

Transplant-based resin-S-1054A ⁷	79	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	54		ASTM D2240
Shaw D, 10 seconds	49		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁸ (Yield)	19.3	MPa	ASTM D638
Tensile Elongation ⁹ (Break)	400	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
UL Temperature Rating	90	°C	
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.	336 hours, UL standard
4.	500g, 1 hour
5.	S-1044B
6.	V-0022G
7.	S-1025A or S-1054A
8.	Type 4, 510mm/min
9.	Type 4, 510mm/min

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