

# Syncure™ System S112BL

Crosslinked Polyethylene

PolyOne Corporation

## Message:

Syncure™ systems are two part moisture crosslinkable compounds. S112BL is a CSA listed, high strength, weather resistant, black (2.5% carbon black) cable insulation compound. RoHS compliant. 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 weather resistance		
Uses	Wire and cable applications		
	Outdoor application		
Wire Types	RW-90		
	RWU-90		
Agency Ratings	CSA C-22.2 0.3		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.933	g/cm <sup>3</sup>	ASTM D792
Gel Content <sup>1</sup>	72	%	ASTM D2765
Tear Resistance <sup>2</sup>	82.3	kN/m	ASTM D1004
Tensile strength retention rate <sup>3</sup> (121°C, 1.91 mm)	95	%	
Elongation retention rate <sup>4</sup> (121°C, 1.91 mm)	90	%	
Deformation <sup>5</sup> (131°C)	7.5	%	UL 1581
Catalyst parent mixture-S-1044B <sup>6</sup>	10	%	
Transplant-based resin-S-1054A <sup>7</sup>	90	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	52		ASTM D2240
Shaw D, 10 seconds	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>8</sup> (Yield)	15.9	MPa	ASTM D638
Tensile Elongation <sup>9</sup> (Break)	500	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant	2.45		ASTM D150

Dissipation Factor	2.0E-3	ASTM D150
Additional Information	Nominal Value	Unit

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.	Mold C,2 inches/min	
3.	336 hours, UL standard	
4.	336 hours, UL standard	
5.	500g,1 hour	
6.	S-1044B	
7.	S-1054A	
8.	Type 4, 510mm/min	
9.	Type 4, 510mm/min	

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