

Syncure™ System S110FV

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ systems are two part moisture crosslinkable compounds, is a UL bulletinized high strength, RoHS compliant highly flame retardant 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	Oil resistance		
	Flame retardancy		
Uses	Wire and cable applications		
	Insulating material		
Wire Types	SIS		
	XHH		
	XHHW		
	XHHW-2		
Agency Ratings	UL 44		
	UL VW-1		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Gel Content ¹	60	%	ASTM D2765
Tensile strength retention rate ² (121°C, 1.91 mm)	100	%	
Elongation retention rate ³ (121°C, 1.91 mm)	94	%	
Deformation ⁴ (131°C)	3.0	%	UL 1581
Flame test ⁵	Pass		UL 1581
Catalyst parent mixture-V-0044G RoHS ⁶	50	%	
Transplant-based resin-S-1060A ⁷	50	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	54		ASTM D2240
Shaw D, 10 seconds	50		ASTM D2240

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁸ (Yield)	17.2	MPa	ASTM D638
Tensile Elongation ⁹ (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 (1 MHz)	2.54		ASTM D150
Dissipation Factor (1 MHz)	2.8E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index (1.91 mm)	27	%	ASTM D2863
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.	Vertical
6.	V-0044G
7.	S-1060A
8.	Type 4, 510mm/min
9.	Type 4, 510mm/min

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