

Syncure™ System S110FV-UV

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ systems are two part moisture crosslinkable insulation compounds. S110FV-UV is a UL bulletinized, RoHS compliant, high strength, highly flame retardant insulation compound. Available in black and natural colorable versions. S110FV-UV is suitable for UL4703 photovoltaic wire insulation not requiring an outer jacket. 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	Low temperature resistance		
	Sunlight resistance, 720 hours		
	Oil resistance		
	Flame retardancy		
Uses	Wire and cable applications		
	Insulating material		
	Solar panel		
Wire Types	SIS		
	XHH		
	XHHW		
	XHHW-2		
Agency Ratings	UL 44		
	UL 4703		
	UL VW-1		
	USE 2		
Appearance	Black		
	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-UV Natural or Black 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

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



WECHAT