

Syncure™ System S100FH-UV

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ systems are two part moisture crosslinkable compounds. S100FH-UV is a UL bulletinized, RoHS compliant and flame retardant cable insulation compound. S100FH-UV is suitable for UL 4703 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	RHH		
	RHW		
	RHW-2		
	SIS		
	USE-2		
	XHH		
	XHHW		
	XHHW-2		
	Uses		
Agency Ratings	UL 1685		
	UL 44		
	UL 4703		
	UL 854		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	51		ASTM D2240

Shaw D, 10 seconds	45		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	12.1	MPa	ASTM D638
Tensile Elongation ² (Break)	400	%	ASTM D638
Deformation Under Load ³ (131°C)	7.60	%	ASTM D621
Aging	Nominal Value	Unit	
Tensile strength retention rate ⁴ (136°C, 762.0 µm)	99	%	
Elongation retention rate ⁵ (136°C, 762.0 µm)	98	%	
Flame test-level	Pass		UL 1581
Catalyst parent mixture-V0022G-UV RoHS	17	%	
Transplant-based resin-S1054A	83	%	
Thermal	Nominal Value	Unit	
UL Temperature Rating	90	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	43	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	4.3E-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. Type 4, 510mm/min
2. Type 4, 510mm/min
3. 2000 g, 1 hr.
4. 168 hr, UL Standard
5. 168 hr, UL Standard

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