

Syncure™ System S100FH

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ systems are two part moisture crosslinkable compounds. S100FH is a UL bulletinized, RoHS and flame retardant 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	Oil resistance		
	Flame retardancy		
Uses	Wire and cable applications		
Wire Types	RHH		
	RHW-2		
	SIS		
	USE-2		
	XHH		
	XHHW		
Agency Ratings	MIL C-24643		
	UL 44		
Appearance	Natural color		
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	%	
Flame test-level			
--	Pass		UL 1581
--	Pass		CSA FT-2
Catalyst parent mixture-V-0022G RoHS	17	%	
Transplant-based resin-S-1054A	83	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	53		ASTM D2240

Shaw D, 10 seconds	47		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁴ (Yield)	19.3	MPa	ASTM D638
Tensile Elongation ⁵ (Break)	400	%	ASTM D638
Deformation Under Load ⁶ (131°C)	10.0	%	UL 1581
Thermal	Nominal Value	Unit	
UL Temperature Rating	90	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant (10 MHz)	2.31		ASTM D150
Dissipation Factor (10 MHz)	1.2E-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. | Cross-linked PE, Method B
(Non-Arbitration Test) |
| 2. | 336 hours, UL standard |
| 3. | 336 hours, UL standard |
| 4. | Type 4, 510mm/min |
| 5. | Type 4, 510mm/min |
| 6. | 500 g, 1 hr. |

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