

Syncure™ System S112FH

Crosslinked Polyethylene

PolyOne Corporation

Message:

Syncure™ systems are two part moisture crosslinkable compounds. S112FH is an economical, RoHS Compliant, flame resistant building wire insulation. 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			
Uses	Building wire insulation material		
	Wire and cable applications		
Wire Types	NMD90		
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	%	
Deformation (131°C) ⁴	10	%	UL 1581
Flame test-level			
--	Pass		CSA FT-2
--	Pass		UL 1581
Catalyst parent mixture-V-0030G RoHS ⁵	17	%	
Transplant-based resin-S-1054A ⁶	83	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁷ (Yield)	19.3	MPa	ASTM D638
Tensile Elongation ⁸ (Break)	430	%	ASTM D638
Electrical	Nominal Value		Test Method
Dielectric Constant (1 kHz)	2.45		ASTM D150
Dissipation Factor (1 kHz)	4.0E-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.	500g,1 hour
5.	V-0030G
6.	S-1054A
7.	Type 4, 510mm/min
8.	Type 4, 510mm/min

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