

# Syncure™ System S107FH

Crosslinked Polyethylene

PolyOne Corporation

## Message:

Forms of UL certification approved: 3167, 3168, 3173, 3182, 3195, 3196, 3226-3229, 3238, 3290, 3295-3298, 3300, and 3457.

General Information			
Uses	Electrical appliances Wire and cable applications		
Wire Types	AWM		
Agency Ratings	CSA CSA, C-22.2, No. 127, Type CL-1251 UL 758		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm <sup>3</sup>	ASTM D792
Gel Content <sup>1</sup>	72	%	ASTM D2765
Tensile strength retention rate <sup>2</sup> (158°C, 1.91 mm)	75	%	
Elongation retention rate <sup>3</sup> (158°C, 1.91 mm)	75	%	
Catalyst parent mixture-V-0045G RoHS	33	%	
Transplant-based resin-S-1054A	67	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw D	64		ASTM D2240
Shaw D, 10 seconds	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>4</sup> (Yield)	31.0	MPa	ASTM D638
Tensile Elongation <sup>5</sup> (Break)	400	%	ASTM D638
Deformation Under Load (131°C)	10.0	%	UL 1581
Thermal	Nominal Value	Unit	
UL Temperature Rating	125	°C	
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.50		ASTM D150
Dissipation Factor (1 MHz)	2.0E-3		ASTM D150
Additional Information	Nominal Value	Unit	
注释:以上情况代表了在30密耳壁的18 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.	672 hours, UL standard
3.	672 hours, UL standard
4.	Type 4, 510mm/min
5.	Type 4, 510mm/min

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