

## PolyOne Syncure™ System S112FH Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds. S112FH is an economical flame resistant building wire insulation. Available in RoHS compliant version. NOTE: The above represents Typical Properties measured on 14 AWG with 30 mil wall. STORAGE AND HANDLING: Use within 48 hours once package is open to avoid self-curing and scrap. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Syncure-System-S112FH-Polyethylene-Crosslinked-XLPE.php](http://www.lookpolymers.com/polymer_PolyOne-Syncure-System-S112FH-Polyethylene-Crosslinked-XLPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Deformation	10 % @Temperature 131 °C, Time 3600 sec	10 % @Temperature 268 °F, Time 1.00 hour	500 g; UL 1581

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.3 MPa	2800 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	430 %	430 %	Type IV, 510 mm/min; ASTM D638

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.45 @Frequency 1000 Hz	2.45 @Frequency 1000 Hz	ASTM D150
Dissipation Factor	0.0040 @Frequency 1000 Hz	0.0040 @Frequency 1000 Hz	ASTM D150

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Catalyst Masterbatch	17%	V-0030G RoHS
Flame Test	Pass	CSA FT-2; Horizontal
	Pass	UL 1581; Horizontal
Forms	Pellets	
Gel Content	68%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	

<b>Generic Name</b> <b>Descriptive Properties</b>	<b>Polyethylene, Crosslinked (XLPE)</b> <b>Value</b>	<b>Comments</b>
Grafted Base Resin	83%	S-1054A
Processing Method	Extrusion Coating	
Regional Availability	North America	
Retention of Tensile Elongation	90%	121°C, 1.91 mm; 336 hr, UL Standard
Retention of Tensile Strength	95%	121°C, 1.91 mm; 336 hr, UL Standard
Uses	Building Wire Insulation	
	Wire & Cable Applications	
Wire Types	NMD90	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China