

## PolyOne Syncure™ System S110FV Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

### Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds, is a UL bulletinized high strength, highly flame retardant insulation compound. Available in a RoHS complaint 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-S110FV-Polyethylene-Crosslinked-XLPE.php](http://www.lookpolymers.com/polymer_PolyOne-Syncure-System-S110FV-Polyethylene-Crosslinked-XLPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Deformation	3.0 %	3.0 %	500 g; UL 1581
	@Temperature 131 °C, Time 3600 sec	@Temperature 268 °F, Time 1.00 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	10 sec; ASTM D2240
	54	54	ASTM D2240
Tensile Strength, Yield	17.2 MPa	2490 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	400 %	400 %	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 °C	194 °F	UL Temperature Rating
Oxygen Index	27 %	27 %	ASTM D2863
	@Thickness 1.91 mm	@Thickness 0.0752 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.54	2.54	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149
Dissipation Factor	0.0028	0.0028	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Agency Ratings	UL 44	
	UL VW-1	
Appearance	Natural Color	
Catalyst Masterbatch	50%	V-0044G RoHS
Features	Flame Retardant	
	Oil Resistant	
Flame Test	Pass	UL 1581; Vertical
Forms	Pellets	
Gel Content	60%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Grafted Base Resin	50%	S-1060A
Processing Method	Extrusion Coating	
Regional Availability	North America	
Retention of Tensile Elongation	94%	121 °C, 1.91 mm; 336 hr, UL Standard
Retention of Tensile Strength	100%	121 °C, 1.91 mm; 336 hr, UL Standard
Uses	Insulation	
	Wire & Cable Applications	
Wire Types	SIS	
	XHH	
	XHHW	
	XHHW-2	

## 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