

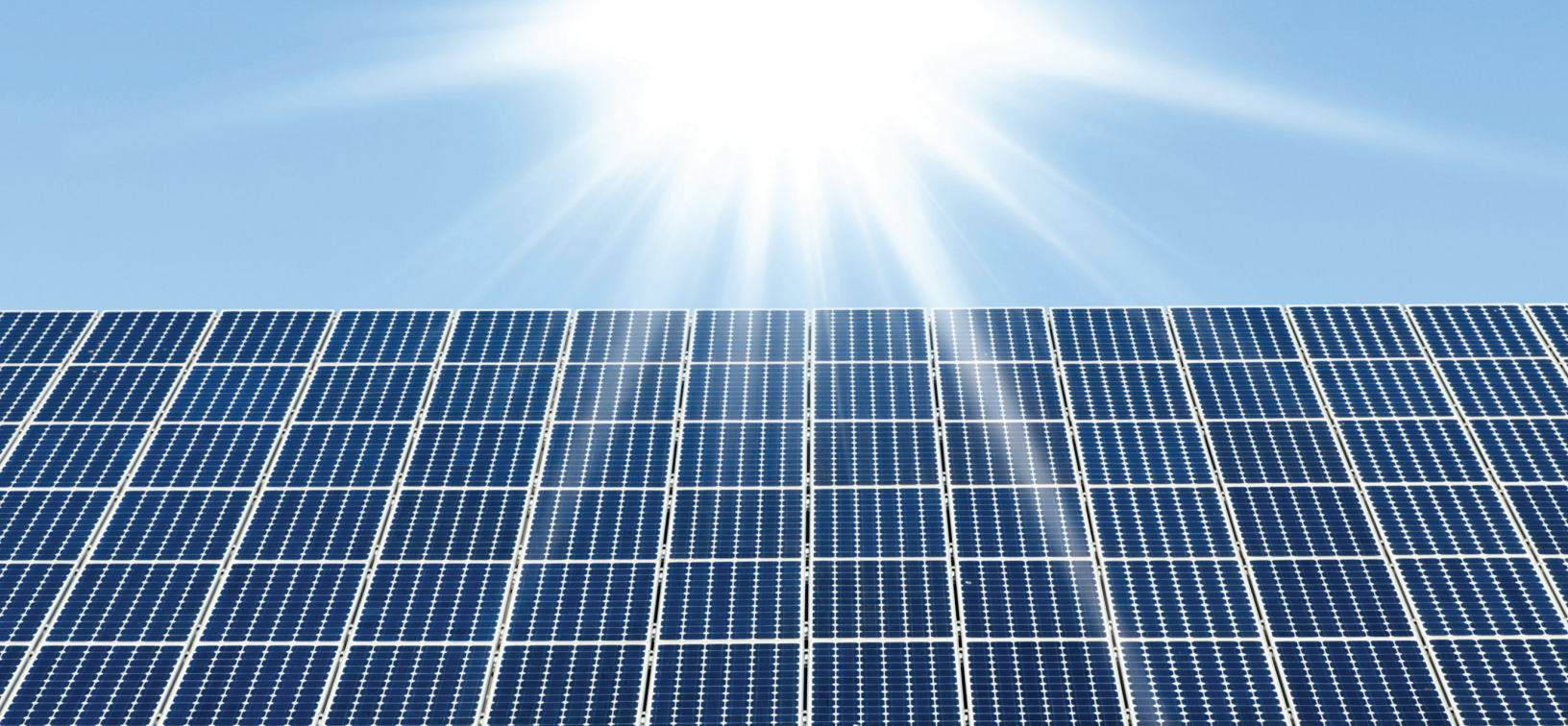
**Syncure™ XLPE**  
**Cross-linkable**  
**Polyethylene**  
**Formulations**  
**FOR LOW VOLTAGE CABLES**



# Syncure™ XLPE

## MOISTURE CROSS-LINKABLE POLYETHYLENE INSULATION FOR LOW VOLTAGE CABLE SYSTEMS

SYSTEM	S100FH	S100FH-XUV	S100FH-UV	S100FV	S100FV-UV	S112NA	S120NA	S200FH	S200FV
<b>Applications</b>	Building Wire, Tray Cable	Building Wire, Tray Cable	Photo-Voltaic (PV) Wire	Building Wire, Tray Cable	Building Wire, Tray Cable	Building Wire, Teck-90	Pipe and Tube	Building Wire, Tray Cable, Service Entrance	Building Wire, Tray Cable, Service Entrance
<b>Specification</b>	UL 44	UL 44	UL 44, UL 4703	UL 44	UL 44	CSA 22.2	Suitable for NSF 61	UL 44	UL 44
<b>Wire Type</b>	XHHW-2, RHW-2, USE-2, SIS	XHHW-2, RHW-2, USE-2, SIS	XHHW-2, RHW-2, USE-2, SIS, PV	XHHW-2, RHW-2, SIS	XHHW-2, RHW-2, USE-2, SIS, PV	RW-90, Teck-90	-	RHW-2, RHW, RHH, XHHW-2, XHH, XHHW, SIS	RHW, RHH, RHW-2
<b>Components %</b>	83% S1054A 17% V0022G RoHS	83% S1054A 17% V0022G-UV RoHS	70% S1054A 30% V0022G-UV RoHS	50% S1054A 50% V0044G RoHS	50% S1054A 50% V0044G-UV RoHS	95% S1054A 5% S1000B	95% S1016A 5% S1037B	78% S1054A 22% SC5400-0002 RoHS MB ALT FR	50% S1054A 50% SC5400-0003 RoHS MB ALT FR
<b>Features</b>	Horizontal Flame	Horizontal Flame, UV Resistant, Colors Possible	Horizontal Flame, FV-1 Flame, UV Resistant, Colors Possible	VW-1	VW-1, UV Resistant, Colors Possible	Non-FR	Rigid Pipe Applications	Horizontal Flame, DBDPE-free	VW-1, DBDPE-free
<b>GENERAL PROPERTIES</b>									
<b>Specific Gravity</b>	1.01	1.02	1.10	1.31	1.31	0.92	0.95	1.01	1.31
<b>Hardness Shore D, 10 Seconds</b>	47	47	47	48	48	47	59	47	48
<b>Gel</b>	68	68	70	70	70	72	72	68	70
<b>TENSILE PROPERTIES</b>									
<b>Tensile Strength (psi)</b>	2800	2500	2650	3200	2650	2800	4500	2800	3200
<b>Elongation %</b>	400	400	540	470	540	400	80	400	470
<b>Tensile Retention %</b>	100	100	97	110	110	95	75	95	100
<b>Elongation Retention %</b>	90	90	94	100	100	90	75	90	93
<b>ELECTRICAL</b>									
<b>Dielectric Strength (V/mil)</b>	1000	1400	1400	1200	1200	1000	-	1000	1200
<b>Dielectric Constant</b>	2.31	2.45	2.61	2.61	2.61	2.24	2.1	2.31	2.61
<b>Dissipation Factor %</b>	0.0012	0.0080	0.008	0.0043	0.0043	0.0008	0.002	0.0012	0.0043
<b>THERMAL</b>									
<b>Temperature Rating °C</b>	90	90	90	90	90	90	125	90	90
<b>Heat Deformation %</b>	10	5	5	5	5	10	10	10	5



The Syncure™ XLPE portfolio is a two-step, silane-grafted, moisture cross-linkable polyethylene system. These materials allow for two distinct advantages over regular polyethylene: greatly improved heat resistance and oil resistance. Produced using Sioplas technology, Syncure XLPE offers the processor significant advantages and economies over organic peroxide, radiation and reactor copolymer cross-linking processes.

## FEATURES

- Ambient curing
- Flame performance
- Resistant to heat, oil, creep and abrasion
- Low temperature properties
- Temperature ratings up to 125°C
- Low capital investment
- High extrusion speeds
- UL/CSA bulletins

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