

PolyOne Syncure™ System S110FV-UV Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Syncure™ systems are two part moisture crosslinkable insulation compounds. S110FV-UV is a UL bulletinized, RoHS compliant, high strength, highly flame retardant insulation compound. Available in black and natural colorable versions. S110FV-UV is suitable for UL4703 photovoltaic wire insulation not requiring an outer jacket. NOTE: The above represents Typical Properties measured on 14 AWG with 30 mil wall. STORAGE AND HANDLING: Use S-1060A 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-UV-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	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
Descriptive Properties	Value	Comments	
Agency Ratings	UL 44		
	UL 4703		
	UL VW-1		
	USE 2		
Appearance	Black		
	Natural Color		
Catalyst Masterbatch	50%	V-0044G-UV Natural or Black	
Features	Flame Retardant		
	Low Temperature Resistant		
	Oil Resistant		
	Sunlight Resistant (720 hours)		
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		
	Solar Panels		
	Wire & Cable Applications		
Wire Types	SIS		
	XHH		

Descriptive Properties	Value	Comments
	XHHW-2	

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