

PolyOne Syncure™ System S100FH Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds. S100FH is a UL bulletinized, flame retardant cable insulation compound. Available in a 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-S100FH-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
Hardness, Shore D	47	47	10 sec; ASTM D2240
	53	53	ASTM D2240
Tensile Strength, Yield	19.3 MPa	2800 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

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.31 @Frequency 1.00e+7 Hz	2.31 @Frequency 1.00e+7 Hz	ASTM D150
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149
Dissipation Factor	0.0012 @Frequency 1.00e+7 Hz	0.0012 @Frequency 1.00e+7 Hz	ASTM D150

Descriptive Properties	Value	Comments
Agency Ratings	MIL C-24643	

Descriptive Properties	UL 44 Value	Comments
Appearance	Natural Color	
Catalyst Masterbatch	17%	V-0022G RoHS
Features	Flame Retardant	
	Oil Resistant	
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	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Grafted Base Resin	83%	S-1054A
Processing Method	Extrusion Coating	
Regional Availability	North America	
Retention of Tensile Elongation	90%	121°C, 1.91 mm; UL Standard, 336 hrs.
Retention of Tensile Strength	95%	121°C, 1.91 mm; UL Standard, 336 hrs.
Uses	Wire & Cable Applications	
Wire Types	RHH	
	RHW-2	
	SIS	
	USE-2	
	XHH	
	XHHW	

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