

PolyOne Syncure™ System S100NA Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds, UL bulletinized easy processing, high strength, colorable cable insulation compound suitable for service entrance cables. RoHS compliant. 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-S100NA-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.923 g/cc	0.923 g/cc	ASTM D792
Deformation	10 %	10 %	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	46	46	10 sec; ASTM D2240
	52	52	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	2.14	2.14	ASTM D150
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149
Dissipation Factor	0.0020	0.0020	ASTM D150

Descriptive Properties	Value	Comments
Agency Ratings	MIL C-24643	
	UL 854	
Appearance	Natural Color	

Descriptive Properties	Value	Comments
Forms	Pellets	
Gel Content	72%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Grafted Base Resin	95%	S-1054A
Processing Method	Extrusion Coating	
Regional Availability	North America	
Retention of Tensile Elongation	85%	158°C, 1.91 mm; 168 hr, UL Standard
	90%	121°C, 1.91 mm; 336 hr, UL Standard
Retention of Tensile Strength	90%	158°C, 1.91 mm; 168 hr, UL Standard
	95%	121°C, 1.91 mm; 336 hr, UL Standard
Uses	Wire & Cable Applications	
Wire Types	USE	
	USE-2	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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