

PolyOne Syncure™ System S112NA Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds. S112NA is a CSA listed, high strength, colorable power cable insulation compound and 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-S112NA-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 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

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.24 @Frequency 1.00e+6 Hz	2.24 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149
Dissipation Factor	0.00080 @Frequency 1.00e+6 Hz	0.00080 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Agency Ratings	CSA C-22.2 0.3	
	IEC 60502	
Appearance	Natural Color	
Catalyst Masterbatch	5%	S-1000B

Descriptive Properties Features	Value Industrial Resin	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	90%	121°C, 1.91 mm; 336 hr, UL Standard
Retention of Tensile Strength	95%	121°C, 1.91 mm; 336 hr, UL Standard
Uses	Wire & Cable Applications	
Wire Types	NMD90	
	RW-90	

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