

PolyOne Syncure™ System S120NA Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds. S120NA is suitable for applications requiring high density, high rigidity and operating temperatures up to 125°C. 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-S120NA-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.948 g/cc	0.948 g/cc	ASTM D792
Oxidative Induction Time (OIT)	40 min	40 min	ASTM D3895
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	59	59	10 sec; ASTM D2240
	64	64	ASTM D2240
Tensile Strength, Yield	31.0 MPa	4500 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	30.0 %	30.0 %	SYV-40; Hot Creep Elongation
	80 %	80 %	Type IV, 510 mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	UL Temperature Rating

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.1	2.1	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
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Appearance Descriptive Properties	Natural Color Value	Comments
Catalyst Masterbatch	5%	S-1037B
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%	S1016A
Processing Method	Extrusion Coating	
Regional Availability	North America	
Retention of Tensile Elongation	75%	121°C, 1.91 mm; 336 hr, UL Standard
Retention of Tensile Strength	75%	121°C, 1.91 mm; 336 hr, UL Standard
Uses	Appliances	
	Wire & Cable Applications	

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