

PolyOne Syncure™ System S112BL Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Syncure™ systems are two part moisture crosslinkable compounds. S112BL is a CSA listed, high strength, weather resistant, black (2.5% carbon black) cable insulation compound. RoHS compliant. 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-S112BL-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.933 g/cc	0.933 g/cc	ASTM D792
Deformation	7.5 %	7.5 %	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	48	48	10 sec; ASTM D2240
	52	52	ASTM D2240
Tensile Strength, Yield	15.9 MPa	2310 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	500 %	500 %	Type IV, 510 mm/min; ASTM D638
Tear Strength	82.3 kN/m	470 pli	Die C, 2 in/min; ASTM D1004

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.45	2.45	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	CSA C-22.2 0.3	
Appearance	Black	
Catalyst Masterbatch	10%	S-1044B
Features	Good Weather Resistance	
Forms	Pellets	

Descriptive Properties	Value	Comments
Generic Material	XLPE	55; Crosslinked PE, Method B (NonReferee Test)
Generic Name	Polyethylene, Crosslinked (XLPE)	
Grafted Base Resin	90%	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	Outdoor Applications	
	Wire & Cable Applications	
Wire Types	RW-90	
	RWU-90	

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