

PolyOne Syncure™ System S107FH Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

UL Bullentinized, silane-grafted (2-step) moisture crosslinkable polyethylene system, UL 90°C. NOTE: The above represents Typical Properties measured on 18 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-S107FH-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.948 g/cc	0.948 g/cc	ASTM D792
Deformation	10 % @Temperature 131 °C	10 % @Temperature 268 °F	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	400 %	400 %	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	2.5 @Frequency 1.00e+6 Hz	2.5 @Frequency 1.00e+6 Hz	ASTM D150
Dissipation Factor	0.0020 @Frequency 1.00e+6 Hz	0.0020 @Frequency 1.00e+6 Hz	ASTM D150

Descriptive Properties	Value	Comments
Agency Ratings	CSA, C-22.2, No. 127, Type CL-1251	
	UL 758	
Catalyst Masterbatch	33%	V-0045G RoHS

Descriptive Properties Forme	Value Pellets	Comments
Gel Content	72%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Grafted Base Resin	67%	S-1054A
Processing Method	Extrusion Coating	
Regional Availability	North America	
Retention of Tensile Elongation	75%	158°C, 1.91 mm; 672 hr, UL Standard
Retention of Tensile Strength	75%	158°C, 1.91 mm; 672 hr, UL Standard
Uses	Appliances	
	Wire & Cable Applications	
Wire Types	AWM	

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