

PolyOne Syncure™ S1027A Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Moisture Crosslinkable Polyethylene Compound. Available as Base Resin component for PolyOne Syncure System. Tensile, Oven Aging, measured on a 100 phr S1027A / 20 phr V0022G system. Deformation, Hot Creep, and Gel measured on a 95 phr S1027A / 5 phr S1000B system; all cured for 6 hours in water at 90 degree C. Pellet appearance is 1/8 cylindrical. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Syncure-S1027A-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Density	0.530 g/cc	0.0191 lb/in ³	Geon® 1169; Internal Method
	0.938 g/cc	0.0339 lb/in ³	ASTM D1505
Melt Flow	0.73 g/10 min	0.73 g/10 min	Procedure A; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Deformation	3.0 % @Temperature 131 °C, Time 3600 sec	3.0 % @Temperature 268 °F, Time 1.00 hour	500 g; UL 1581

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	17.9 MPa	2600 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	35.0 %	35.0 %	SYV-40; Hot Creep Elongation
	450 %	450 %	Type IV, 510 mm/min; ASTM D638

Descriptive Properties	Value	Comments
Appearance	Pellets/Cubes	ASTM D2090
Forms	Pellets	
Gel Content	75%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Regional Availability	North America	
Retention of Tensile Elongation	80%	168°C, 1.91 mm; 168 hr, UL Standard
Retention of Tensile Strength	85%	168°C, 1.91 mm; 168 hr, UL Standard

Descriptive Properties	Wire & Cable Applications Value	Comments
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