

PolyOne Syncure™ S1016A Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Moisture Crosslinkable Polyethylene Compound. Available as Base Resin component for PolyOne Syncure System. Tensile, Elongation, Deformation, Hot Creep, and Gel measured on a 95 phr S1016A / 5 phr S1000B system; and cured for 6 hours in water at 90 degree C.

Modulus measured on a 95 phr S1016A / 5 phr S1037B system. Pellet appearance is 1/8 cylindrical. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Syncure-S1016A-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Density	0.530 g/cc	0.0191 lb/in ³	Geon® 1169; Internal Method
	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Melt Flow	0.46 g/10 min	0.46 g/10 min	Procedure A; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Deformation	2.0 % @Temperature 131 °C, Time 3600 sec	2.0 % @Temperature 268 °F, Time 1.00 hour	500 g; UL 1581

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	30.0 %	30.0 %	SYV-40; Hot Creep Elongation
	400 %	400 %	Type IV, 510 mm/min; ASTM D638
Flexural Modulus	0.00965 GPa	1.40 ksi	ASTM D790

Descriptive Properties	Value	Comments
Appearance	Pellets/Cubes	ASTM D2090
Forms	Pellets	
Gel Content	80%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Regional Availability	North America	
Uses	Wire & Cable Applications	

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