

## PolyOne Syncure™ S1075A 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 S1074A / 5 phr S1000B system; and cured for 6 hours in water at 90 degree C. Flexural Modulus measured on a 96 phr S1075A / 4 phr S1042B 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-S1075A-Polyethylene-Crosslinked-XLPE.php](http://www.lookpolymers.com/polymer_PolyOne-Syncure-S1075A-Polyethylene-Crosslinked-XLPE.php)

Physical Properties	Metric	English	Comments
Density	0.530 g/cc	0.0191 lb/in <sup>3</sup>	Geon® 1169; Internal Method
	0.940 g/cc	0.0340 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	0.32 g/10 min	0.32 g/10 min	Procedure A; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
Deformation	-2.00 %  @Temperature 131 °C, Time 3600 sec	-2.00 %  @Temperature 268 °F, Time 1.00 hour	500 g; UL 1581

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	23.4 MPa	3390 psi	Type IV, 510 mm/min; ASTM D638
Elongation at Break	25.0 %	25.0 %	SYV-40; Hot Creep Elongation
	380 %	380 %	Type IV, 510 mm/min; ASTM D638
Flexural Modulus	0.724 GPa	105 ksi	ASTM D790

Descriptive Properties	Value	Comments
Appearance	Pellets/Cubes	ASTM D2090
Forms	Pellets	
Gel Content	78%	ASTM D2765; Crosslinked PE, Method B (NonReferee Test)
Generic Material	XLPE	
Generic Name	Polyethylene, Crosslinked (XLPE)	
Regional Availability	North America	

Uses Descriptive Properties	Wire & Cable Applications Value	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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