

SABIC 318CN Linear Low Density Polyethylene for Wire & Cable

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

Product Description: 318CN is a Linear Low Density Polyethylene natural resin for wire and cable applications. It contains a low level of antioxidants and does not contain any slip or antiblock additives. Sufficient antioxidant and Cu-inhibitor should be added to meet specific ageing requirements. For jacketing applications, addition of Carbon Black or UV stabilizer is required. **Typical Applications:** One-step or two-step Silane cross-linkable insulation for Low Voltage power insulation cable, Aerial bundle cable, also suitable for telecommunication and Low Voltage power cable jacketing. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-318CN-Linear-Low-Density-Polyethylene-for-Wire-Cable.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	load density; ASTM D1505
Melt Flow	2.8 g/10 min	2.8 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	ASTM D2240
Tensile Strength at Break	18.0 MPa	2610 psi	ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D638
Elongation at Break	555 %	555 %	ASTM D638
Elongation at Yield	17 %	17 %	ASTM D638
1% Secant Modulus	174 MPa	25200 psi	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	120 °C	248 °F	Peak; SABIC Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.80e+17 ohm-cm	6.80e+17 ohm-cm	at 500 V; ASTM D257
Dielectric Constant	2.25	2.25	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	37.0 kV/mm	940 kV/in	1000 V/sec; ASTM D149
	0.00070	0.00070	

Designation Factor	Metric	English	ASTM D150
Electrical Properties	@ Frequency 1000 Hz	@ Frequency 1000 Hz	Comments

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