

# SABIC® LLDPE 318CN

Linear Low Density Polyethylene

SABIC Americas, Inc.

## Message:

### Product Description

318CN is Linear Low Density Polyethylene natural resin designed for wire and cable applications. It contains low level of antioxidants and does not contain any slip and 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 and is also suitable for telecommunication and Low Voltage power cable jacketing.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Crosslinkable		
Uses	Power Cable Jacketing		
	Telecommunications		
	Wire & Cable Applications		
Processing Method	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	51		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant	174	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Injection Molded	10.0	MPa	
Break, Injection Molded	18.0	MPa	
Tensile Elongation			ASTM D638
Yield, Injection Molded	17	%	
Break, Injection Molded	560	%	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	120	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity <sup>1</sup>	6.8E+17	ohms · cm	ASTM D257
Dielectric Strength <sup>2</sup>	37	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.25		ASTM D150

Dissipation Factor (1 kHz)	7.0E-4	ASTM D150
NOTE		
1.	500V	
2.	1000 V/sec	

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#### Recommended distributors for this material

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