



# SABIC<sup>®</sup> LLDPE 324CE

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC<sup>®</sup> LLDPE 324CE is a Linear Low Density Polyethylene natural resin typically used for wire and cable applications. SABIC<sup>®</sup> LLDPE 324CE contains a low level of antioxidants and does not contain any antiblock and/or slip agents. It also exhibits good Environmental Stress Crack Resistance (ESCR). Sufficient Cu-inhibitor should be added to meet specific ageing requirements. For jacketing applications, addition of Carbon Black or UV stabilizer is required.

### Applications

- Telecommunication and Power cable (LV, MV, HV) jacketing.
- Halogen-free flame retardant (HFFR) compounds.
- One-step or two-steps silane crosslinkable for cable insulation.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

Mechanical and electrical properties.

Test specimens were prepared by compression moulding according to ASTM D 4703.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 190 °C and 2.16 kg	3.6	dg/min	ISO 1133
<b>Density</b>	924	kg/m <sup>3</sup>	ASTM D1505
<b>DSC</b>			
melting point	123	°C	SABIC method
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield	13	MPa	ISO 527-2
strain at break	1900	%	ISO 527-2
strain at yield	21	%	ISO 527-2
stress at break	22	MPa	ISO 527-2
<b>Flexural test</b>			
Flexural modulus	500	MPa	ISO 178
<b>Hardness Shore D</b>	53	-	ISO 868
<b>ELECTRICAL PROPERTIES</b>			
<b>Volume resistivity</b>	8.5E15	Ohm.cm	ASTM D257
<b>Dissipation factor at 60 Hz</b>	5.0E-4	-	ASTM D150
<b>Dielectric constant at 60 Hz</b>	2.2	-	ASTM D150
<b>Dielectric strength at 2000 V/sec</b>	>30	V/μm	ASTM D149

## QUALITY

SABIC is fully certified in accordance with the internationally accepted quality standard ISO 9001.