

SABIC[®] LLDPE 324CE

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC[®] LLDPE 324CE is a Linear Low Density Polyethylene natural resin typically used for wire and cable applications. SABIC[®] 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
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	3.6	dg/min	ISO 1133
Density	924	kg/m ³	ASTM D1505
DSC			
melting point	123	°C	SABIC method
MECHANICAL PROPERTIES			
Tensile test			
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
Flexural test			
Flexural modulus	500	MPa	ISO 178
Hardness Shore D	53	-	ISO 868
ELECTRICAL PROPERTIES			
Volume resistivity	8.5E15	Ohm.cm	ASTM D257
Dissipation factor at 60 Hz	5.0E-4	-	ASTM D150
Dielectric constant at 60 Hz	2.2	-	ASTM D150
Dielectric strength at 2000 V/sec	>30	V/μm	ASTM D149

QUALITY

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