

# SABIC® LLDPE 324CE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

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.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	High ESCR (Stress Crack Resist.)		
	Low Density		
Uses	Cable Jacketing		
	Compounding		
	Insulation		
	Telecommunications		
	Wire & Cable Applications		
Appearance	Natural Color		
Processing Method	Extrusion		
	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.6	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	53		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	13.0	MPa	
Break, Compression Molded	22.0	MPa	
Tensile Strain			ISO 527-2
Yield, Compression Molded	21	%	

Break, Compression Molded	1900	%	
Flexural Modulus (Compression Molded)	500	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	123	°C	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.5E+15	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	> 30	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.20		ASTM D150
Dissipation Factor (60 Hz)	5.0E-4		ASTM D150
NOTE			
1.	2000 V/sec		

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Recommended distributors for this material

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