

# SABIC® LLDPE 324CNJ

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 324CNJ is a Linear Low Density Polyethylene natural resin designed for wire and cable applications. SABIC® LLDPE 324CNJ contains a low level of antioxidants and does not contain any antiblock and/or slip agents. It also exhibits excellent 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	Antioxidation		
Features	Low density		
	High ESCR (Stress Cracking Resistance)		
	Antioxidation		
Uses	Cable sheath		
	Wire and cable applications		
	Composite		
	Insulating material		
	Communication Equipment		
Appearance	Natural color		
Processing Method	Wire & Cable Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.6	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	11.0	MPa	ASTM D638
Fracture, molding	18.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, molding	14	%	ASTM D638
Fracture, molding	600	%	ASTM D638

Flexural Modulus - 1% Secant (Compression Molded)	225	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	121	°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.5E+15	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- 1	> 30	kV/mm	ASTM D149
-- 2	55	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		
2.	500 V/sec		

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#### Recommended distributors for this material

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