

SABIC® LLDPE 324CNJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

324CNJ is a Linear Low Density Polyethylene TNPP free grade 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 suitable for telecommunication and Low Voltage power cable jacketing.

TYPICAL PROPERTY VALUES

Revision 20260319

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	3.6	g/10 min	ASTM D1238
Density	924	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Hardness Shore D	53	-	ISO 868
FILM PROPERTIES			
Tensile Properties ⁽¹⁾			
stress at yield	11	MPa	ASTM D638
stress at break	18	MPa	ASTM D638
strain at yield	14	%	ASTM D638
strain at break	600	%	ASTM D638
1% secant modulus	225	MPa	ASTM D638
THERMAL PROPERTIES			
Peak Melting Temperature	121	°C	SABIC method
ELECTRICAL PROPERTIES			
Volume resistivity	8.5E15	Ω.cm	ASTM D257
Dielectric Strength			
at 500 V/sec	55	V/μm	ASTM D149
at 2000 V/sec	>30	V/μm	ASTM D149
Dissipation Factor			
@ 60 Hz	5.0E-4	-	ASTM D150
Dielectric Constant			
@ 60 Hz	2.2	-	ASTM D150

(1) Based on Injection molded specimens.



STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

PROCESSING CONDITIONS

Process condition for LLDPE 324CNJ is

185°C to 220 °C

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