

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

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 constant at 60 Hz	2.2	-	ASTM D150
Dissipation factor at 60 Hz	5.0E-4	-	ASTM D150
Dielectric strength at 2000 V/sec	>30	V/μm	ASTM D149
Dielectric strength at 500 V/sec	55	V/μm	ASTM D149

(1) Based on Injection molded specimens.