

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/m³	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.

© 2026 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



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

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

