

324CN

Linear Low Density Polyethylene for Wire & Cable

Product Description

324CN is Linear Low Density Polyethylene natural resin 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 is also suitable for telecommunication and Low Voltage power cable jacketing.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	3.6	D 1238
Density @ 23°C	kg/m ³	924	D 1505
Peak Melting Temperature	°C	121	SABIC Method
Mechanical Properties⁽²⁾			
Tensile Strength @ yield	MPa	11	D 638
Tensile Strength @ break	MPa	18	D 638
Tensile Elongation @ yield	%	14	D 638
Tensile Elongation @ break	%	600	D 638
1% Secant Modulus	%	225	D 790
Hardness (Shore D)	-	53	D 2240
Electrical Properties			
Volume Resistivity @ 500V	Ohms.cm	1.4E18	D 257
Dielectric Constant @ 1 KHz	-	2.28	D 150
Dissipation Factor @ 1 KHz	-	4.3E-4	D 150
Dielectric Strength @ 1000 V/sec	kV/mm	37	D 149

(1) Typical values; not to be construed as specification limits.

(2) Based on Injection molded specimens

Food Regulation

Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling

Polyethylene material 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 don't 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.

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