SABIC® LLDPE 128CNJ

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

128CNJ is a Linear Low Density Polyethylene natural resin designed for extrusion applications. This grade is combining stiffness, toughness, high melt strength with an excellent processability due to its broad molecular weight distribution. It is TNPP free and contains an optimized level of stabilizers and does not contain any slip or anti-block additives.

TYPICAL APPLICATIONS

Bedding and Jacketing for low/medium voltage power cables and jacketing for telecommunication cables, electrical conduits and drip & irrigation pipes.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR) (1)			
at 190°C and 2.16 kg (1)	1.0	g/10 min	ASTM D1238
Density (1)	928	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile Strength at Yield (2)	14	MPa	ASTM D638
Tensile Strength at Break (2)	25	MPa	ASTM D638
Tensile Elongation at Yield (2)	12	%	ISO 527-1/-2
Tensile Elongation at Break (2)	850	%	ASTM D638
1% Secant Modulus (2)	470	MPa	ASTM D638
Hardness (Shore D) (2)	48	-	ASTM D2240
ESCR (50°C,10% Igepal), F0 (2)	>5000	Hrs	ASTM D1693B
ELECTRICAL PROPERTIES			
Volume Resistivity @ 500V	1.14	Ω.cm	ASTM D257
Dielectric Constant @ 1 KHz	2.2	-	ASTM D150

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

(2) Based on compression molded specimens

STORAGE AND HANDLING

LLDPE 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 and inadequate product performance. It is advisable to process LLDPE resin within 6 months after delivery.