

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/m ³ | 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