

SABIC® LLDPE 218NJA

LINEAR LOW DENSITY POLYETHYLENE
REGION AMERICAS

DESCRIPTION

SABIC® LLDPE 218NJA is a butene Linear Low Density Polyethylene TNPP free grade suitable for general-purpose packaging. It is easy to process giving good tensile properties, impact strength and optical properties. 218NJA contains no slip and no antiblock additives.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL APPLICATIONS

Lamination film, thin liners, shopping bags, carrier bags, garbage bags, coextruded films, consumer packaging and other general-purpose applications.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate (MFR) | | | |
| at 190 °C and 2.16 kg | 2.0 | g/10 min | ASTM D1238 |
| Density | 918 | kg/m ³ | ASTM D1505 |
| OPTICAL PROPERTIES⁽¹⁾ | | | |
| Haze | 11 | % | ASTM D1003 |
| Gloss (45°) | 80 | ‰ | ASTM D2457 |
| FILM PROPERTIES | | | |
| Tensile test film⁽¹⁾ | | | |
| Stress at break, MD | 40 | MPa | ASTM D882 |
| Stress at break, TD | 31 | MPa | ASTM D882 |
| Strain at break, MD | 600 | % | ASTM D882 |
| Strain at break, TD | 810 | % | ASTM D882 |
| Stress at yield, MD | 10 | MPa | ASTM D882 |
| Strength at Yield TD | 11 | MPa | ASTM D882 |
| Dart Impact Strength | 85 | g | ASTM D1709 |
| 1% secant modulus, MD | 195 | MPa | ASTM D882 |
| 1% secant modulus, TD | 210 | MPa | ASTM D882 |
| Elmendorf Tear Strength MD | 110 | g | ASTM D1922 |
| Elmendorf Tear Strength TD | 360 | g | ASTM D1922 |
| THERMAL PROPERTIES | | | |
| DSC test | | | |
| Melting Point | 121 | °C | SABIC method |

(1) Mechanical properties have been measured by producing 30 µ film with 2.5 BUR using 100% 218NJA.