



# SABIC® LLDPE 119ZJ

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC® LLDPE 119ZJ is a butene linear low density polyethylene resin produced using solution technology, typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hottack properties. The resin contains slip and antiblock additive. SABIC® LLDPE 119ZJ is TNPP free.

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

## TYPICAL APPLICATIONS

Shipping sacks, ice bags, frozen food bags, stretch wrap film, produce bags, liners, carrier bags, garbage bags, agricultural films, laminated and coextruded films for meat wrap, frozen food and other food packaging, shrink film (for blending with LDPE), industrial consumer packaging, and high clarity film applications if blended with (10~20%) LDPE.

## TYPICAL PROPERTY VALUES

| PROPERTIES                               | TYPICAL VALUES | UNITS             | TEST METHODS |
|--|----------------|-------------------|--------------|
| <b>POLYMER PROPERTIES</b>                |                |                   |              |
| <b>Density</b>                           |                |                   |              |
| Density                                  | 0.918          | g/cm <sup>3</sup> | ASTM D792    |
| <b>Melt Flow Rate (MFR)</b>              |                |                   |              |
| at 190 °C and 2.16 kg                    | 1.0            | g/10 min          | ASTM D1238   |
| <b>OPTICAL PROPERTIES <sup>(1)</sup></b> |                |                   |              |
| <b>Gloss</b>                             |                |                   |              |
| Gloss (45°)                              | 65             | -                 | ASTM D2457   |
| <b>Haze <sup>(1)</sup></b>               | 12             | %                 | ASTM D1003   |
| <b>FILM PROPERTIES <sup>(1)</sup></b>    |                |                   |              |
| <b>Dart Impact Strength</b>              |                |                   |              |
| Dart Drop Impact                         | 95             | g                 | ASTM D1709   |
| <b>Elmendorf Tear Strength</b>           |                |                   |              |
| Tear Strength, MD                        | 110            | g                 | ASTM D1922   |
| Tear Strength, TD                        | 255            | g                 | ASTM D1922   |
| <b>Tensile test film</b>                 |                |                   |              |
| 2% secant modulus, MD                    | 183            | MPa               | ASTM D882    |
| 2% secant modulus, TD                    | 217            | MPa               | ASTM D882    |
| Stress @ Yield, MD                       | 12.2           | MPa               | ASTM D882    |
| Stress @ Yield, TD                       | 12.2           | MPa               | ASTM D882    |
| Stress @ Break, MD                       | 38             | MPa               | ASTM D882    |
| Stress @ Break, TD                       | 22.9           | MPa               | ASTM D882    |
| Strain @ Break, MD                       | 630            | %                 | ASTM D882    |
| Strain @ Break, TD                       | 720            | %                 | ASTM D882    |

(1) Fabrication Conditions are: Die Gap 70mil (1.8 mm), Melt Temperature 226C, output: 55 kg/hr, Die Diameter: 203mm, Blow-up Ratio:2.5:1 and Frost Line Height: 71 cm