

TECHNICAL DATA SHEET

TRICOLENE LLB2919

Linear Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LLDPE is a copolymer of ethylene and 1-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process. This reference does not have any slip or antiblock additives.

PROCESSING METHODS

Cast Film Extrusion
Blown Film Extrusion

CHARACTERISTICS

Mechanical and Sealing Properties

APPLICATIONS

Cast Stretch Film
Food Packaging
Can Liners

RESIN PROPERTIES

Melt Flow Rate 2.16 kg/190 °C MFR₂
Density 23 °C
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, English Units

2.0 g/10 min
0.919 g/cm³
Yes

VALUES, International Units

2.0 g/10 min
0.919 g/cm³
Yes

BLOWN FILM PROPERTIES

Evaluated Film Thickness
Dart Impact Strength
38.0 mm (1.5 in), 0.66 m (26.0 in), F50
Elmendorf Tear Strength
Tensile Strength at Break
20.0 in/min (508 mm/min)
Tensile Elongation at Break
20.0 in/min (508 mm/min)
Tensile Secant Modulus of Elasticity
1 % Elongation, 0.051 in/min (1.3 mm/min)
Haze

TEST METHOD

ASTM D1709A
ASTM D1922
ASTM D882
ASTM D882
ASTM D882
ASTM D882
ASTM D1003

VALUES, English Units

1.0 mils
70 g/F50
MD 120 g
TD 440 g
MD 4,500 psi
TD 3,200 psi
MD 800 %
TD 980 %
MD 28,000 psi
TD 33,000 psi
19.0 %

VALUES, International Units

25.4 µm
70 g/F50
120 g
440 g
31.0 MPa
22.1 MPa
800 %
980 %
193.1 MPa
227.6 MPa
19.0 %

PROCESSING CONDITIONS OF EVALUATED FILM

Die Gap
Blow-up Ratio, BUR

VALUES, English Units

100 mils
2.5

VALUES, International Units

2.5 mm
2.5

The data presented here is true and accurate to the best of our knowledge. Likewise, the values are nominal and should not be taken as minimum or maximum specifications. No warranty, express or implied, is made regarding resin performance. The customer must validate these properties according to his own evaluations on his machine and in his laboratory.

REGULATORY COMPLIANCE

This resin complies with the following FDA regulation: 21 CFR 177.1520: Olefinic Polymers. This regulation describes polyolefin resins that can be used safely for food packaging and preservation at low temperatures and at ambient temperatures. This resin is not designed for use in medical applications and should not be used in such applications.

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FLEXIBLE

