

TECHNICAL DATA SHEET

TRICOLENE LLB1919

Linear Low Density Polyethylene

777 Post Oak Blvd, Suite 550,
Houston TX, USA - 77056
+1-713-963-0066
www.triconenergy.com



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.

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Good Mechanical Properties
Good Mixing with LDPE

APPLICATIONS

Trash Bags
Agricultural Films
Liners for Drums

RESIN PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

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

ASTM D1238
ASTM D1505

1.1 g/10 min
0.919 g/cm³
None
Yes

1.1 g/10 min
0.919 g/cm³
None
Yes

BLOWN FILM PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Evaluated Film Thickness
Dart Impact Strength
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

ASTM D1709A

1.0 mils
120 g

25.4 µm
120 g

Elmendorf Tear Strength

ASTM D1922

MD 130 g
TD 490 g

130 g
490 g

Tensile Strength at Break
20.0 in/min (508 mm/min)

ASTM D882

MD 5,500 psi
TD 3,500 psi

38 MPa
24 MPa

Tensile Elongation at Break
20.0 in/min (508 mm/min)

ASTM D882

MD 800 %
TD 950 %

800 %
950 %

Tensile Secant Modulus of Elasticity
1 % Elongation, 0.051 in/min (1.3 mm/min)

ASTM D882

MD 27,000 psi
TD 33,000 psi

186 MPa
228 MPa

Haze

ASTM D1003

9.0 %

9.0 %

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter
Die Gap
Melt Temperature
Blow-up Ratio, BUR
Output
Specific Output
Take-off Speed

6.0 in
100 mils
450 °F
2.5 ---
100.0 Lb/h
5.31 Lb/h/in
800.0 ft/min

152 mm
2.5 mm
232 °C
2.5 ---
45.4 kg/h
0.09 kg/h/cm
243.9 m/min

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

