

TECHNICAL DATA SHEET

TRICOLENE LLB1918SBX

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

Toughness and strength

APPLICATIONS

Agricultural, Food and Industrial Packaging

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C

MFR₂

Density 23 °C

Slip

Antiblock

Antioxidant Package

TEST METHOD

ASTM D1238

ASTM D1505

VALUES, ENGLISH UNITS

1.0 g/10 min

0.918 g/cm³

1,700 ppm

5,000 ppm

Yes

VALUES, INTERNATIONAL UNITS

1.0 g/10 min

0.918 g/cm³

1,700 ppm

5,000 ppm

Yes

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 Yield

20.0 in/min (508 mm/min)

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

Specular Gloss 45 °

TEST METHOD

ASTM D1709A

ASTM D1922

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D1003

ASTM D2457

VALUES, ENGLISH UNITS

1.0 mils

90 g

MD 90 g

TD 450 g

MD 1,400 psi

TD 1,400 psi

MD 7,300 psi

TD 5,200 psi

MD 570 %

TD 870 %

MD 28,000 psi

TD 33,000 psi

14.0 %

45.0

VALUES, INTERNATIONAL UNITS

25.4 μm

90 g

90 g

450 g

10 MPa

10 MPa

50 MPa

36 MPa

570 %

870 %

193 MPa

228 MPa

14.0 %

45.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter

Die Gap

Melt Temperature

Blow-up Ratio, BUR

Specific Output

2.5 in

60 mils

405 ° F

2.5 ---

10.00 Lb/h/in

64 mm

1.5 mm

207 ° C

2.5 ---

1.79 kg/h/cm

* 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.

