

TECHNICAL DATA SHEET

TRICOLENE LLB1918

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

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Melt Flow Rate 2.16 kg/190 °C MFR₂

ASTM D1238

1.0 g/10 min

1.0 g/10 min

Density 23 °C

ASTM D1505

0.918 g/cm³

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Processing Aid

Yes

Yes

Antioxidant Package

Yes

Yes

BLOWN FILM PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

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Evaluated Film Thickness

1.0 mils

25.4 μm

Dart Impact Strength

ASTM D1709A

90 g

90 g

38.0 mm (1.5 in), 0.66 m (26.0 in), F50

Elmendorf Tear Strength

ASTM D1922

MD

90 g

90 g

Tensile Strength at Yield

ASTM D882

TD

450 g

450 g

20.0 in/min (508 mm/min)

Tensile Strength at Break

ASTM D882

MD

1,400 psi

10 MPa

20.0 in/min (508 mm/min)

Tensile Elongation at Break

ASTM D882

TD

1,400 psi

10 MPa

20.0 in/min (508 mm/min)

Tensile Secant Modulus of Elasticity

ASTM D882

MD

7,300 psi

50 MPa

1 % Elongation, 0.051 in/min (1.3 mm/min)

Haze

ASTM D1003

5,200 psi

36 MPa

Specular Gloss 45 °

ASTM D2457

570 %

570 %

10.00 Lb/h/in

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter

2.5 in

64 mm

Die Gap

60 mils

1.5 mm

Melt Temperature

405 ° F

207 ° C

Blow-up Ratio, BUR

2.5 ---

2.5 ---

Specific Output

10.00 Lb/h/in

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.

Revision 3: 2022-01-25

FLEXIBLE

