

TECHNICAL DATA SHEET

TRICOLENE LLB1918SB

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.

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

ASTM D1238

1.0 g/10 min

1.0 g/10 min

Density 23 °C

ASTM D1505

0.918 g/cm³

0.918 g/cm³

Slip

1,500 ppm

1,500 ppm

Antiblock

6,300 ppm

6,300 ppm

Antioxidant Package

Yes

Yes

FILM PROPERTIES *

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Evaluated Film Thickness

1.0 mils

25.4 µm

Dart Impact Strength

ASTM D1709A

100 g

100 g

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

Elmendorf Tear Strength

ASTM D1922

MD

100 g

100 g

TD

330 g

330 g

Tensile Strength at Yield

ASTM D882

MD

1,600 psi

11 MPa

TD

1,600 psi

11 MPa

Tensile Strength at Break

ASTM D882

MD

7,100 psi

49 MPa

TD

4,900 psi

34 MPa

Tensile Elongation at Break

ASTM D882

MD

540 %

540 %

TD

830 %

830 %

Tensile Secant Modulus of Elasticity

ASTM D882

MD

29,000 psi

200 MPa

TD

33,400 psi

230 MPa

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

Haze

ASTM D1003

11.0 %

11.0 %

Specular Gloss 45 °

ASTM D2457

56.0

56.0

Die Diameter

4.0 in

102 mm

Die Gap

100 mils

2.5 mm

Blow-up Ratio, BUR

2.5 ---

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.

