

TECHNICAL DATA SHEET

TRICOLENE LLB1918SB-13

Linear Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of prime LLDPE is a copolymer of ethylene and 1-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process. This type of butene LLDPE contains slip and antiblock additives.

PROCESSING METHODS

Blown Film Extrusion
Sheet and Profile Extrusion

CHARACTERISTICS

Good Toughness and Strength
Good Heat Seal Strength
Excellent Drawdown

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
Density 23 °C
Slip
Antiblock
Antioxidant Package

ASTM D1238

1.0 g/10 min

1.0 g/10 min

ASTM D1505

0.918 g/cm³

0.918 g/cm³

1,500 ppm

1,500 ppm

3,500 ppm

3,500 ppm

Yes

Yes

BLOWN FILM PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Evaluated Film Thickness

1.0 mils

25.4 µm

Dart Impact Strenght

ASTM D1709A

80 g

80 g

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

Elmendorf Tear Strenght

ASTM D1922

MD

100 g

100 g

TD

450 g

450 g

Tensile Strenght at Yield

ASTM D882

MD

1,348 psi

9.3 MPa

TD

1,406 psi

9.7 MPa

Tensile Strenght at Break

ASTM D882

MD

6,380 psi

44.0 MPa

TD

3,770 psi

26.0 MPa

Tensile Elongation at Break

ASTM D882

MD

510 %

510 %

TD

690 %

690 %

20.0 in/min (508 mm/min)

Haze

ASTM D1003

13.0 %

13.0 %

Specular Gloss 45 °

ASTM D2457

53.0

53.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

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.

Revision 1: 2021-11-22

FLEXIBLE

