

TECHNICAL DATA SHEET

TRICOLENE LLH1918SB

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-hexene produced with Ziegler-Natta catalysts in a gas phase polymerization process.

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Good Toughness
Good Processability

APPLICATIONS

Consumer and Industrial Packaging

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C

MFR₂

ASTM D1238

0.9 g/10 min

0.9 g/10 min

Density 23 °C

ASTM D1505

0.918 g/cm³

0.918 g/cm³

Slip

1,600 ppm

1,600 ppm

Antiblock

6,500 ppm

6,500 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 Strenght

ASTM D1709A

250 g

250 g

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

Elmendorf Tear Strenght

ASTM D1922

MD

400 g

400 g

TD

700 g

700 g

Tensile Strenght at Break

ASTM D882

MD

8,000 psi

55 MPa

TD

5,000 psi

34 MPa

Tensile Elongation at Break

ASTM D882

MD

400 %

400 %

TD

650 %

650 %

Tensil Secant Modulus of Elasticity

ASTM D882

MD

32,000 psi

221 MPa

TD

38,000 psi

262 MPa

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

Haze

ASTM D1003

24.0 %

24.0 %

Specular Gloss 45 °

ASTM D2457

50.0

50.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter

8.0 in

203 mm

Die Gap

80 mils

2.0 mm

Melt Temperature

440 ° F

227 ° C

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.

