

TECHNICAL DATA SHEET

TRICOLENE LLH1919

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 Sealability

APPLICATIONS

Consumer and Industrial Packaging

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C

MFR₂

Density 23 °C

Antioxidant Package

TEST METHOD

ASTM D1238

ASTM D1505

VALUES, ENGLISH UNITS

1.0 g/10 min

0.919 g/cm³

Yes

VALUES, INTERNATIONAL UNITS

1.0 g/10 min

0.919 g/cm³

Yes

FILM PROPERTIES *

Evaluated Film Thickness

Dart Impact Strenght

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

Elmendorf Tear Strenght

Tensile Strenght at Break

20.0 in/min (508 mm/min)

Tensile Elongation at Break

20.0 in/min (508 mm/min)

Tensil 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 D1003

ASTM D2457

VALUES, ENGLISH UNITS

1.0 mils

130 g

MD

TD

MD

TD

MD

TD

MD

TD

15.0 %

50.0

VALUES, INTERNATIONAL UNITS

25.4 μm

130 g

340 g

700 g

48 MPa

31 MPa

750 %

900 %

207 MPa

248 MPa

15.0 %

50.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Gap

Blow-up Ratio, BUR

TEST METHOD

VALUES, ENGLISH UNITS

100 mils

2.5 ---

VALUES, INTERNATIONAL UNITS

2.5 mm

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.

