

TECHNICAL DATA SHEET

TRICOLENE LL01920

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-octene produced with Ziegler-Natta catalysts in a solution polymerization process.

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Easy Processability
High Toughness and Strength
Excellent Seal Properties

APPLICATIONS

Heavy Duty Shipping Sacks
High Strength 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

0.920 g/cm³

0.920 g/cm³

Processing Aid

Yes

Yes

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

270 g

270 g

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

Elmendorf Tear Strength

ASTM D1922

MD

420 g

420 g

TD

605 g

605 g

Tensile Strength at Yield

ASTM D882

MD

1,500 psi

10 MPa

TD

1,500 psi

10 MPa

Tensile Strength at Break

ASTM D882

MD

7,000 psi

48 MPa

TD

4,600 psi

32 MPa

Tensile Elongation at Break

ASTM D882

MD

480 %

480 %

TD

670 %

670 %

Tensile Secant Modulus of Elasticity

ASTM D882

MD

25,400 psi

175 MPa

TD

28,300 psi

195 MPa

Haze

ASTM D1003

10.0 %

10.0 %

Specular Gloss 45 °

ASTM D2457

59.0

59.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter

4.0 in

102 mm

Die Gap

35 mils

0.9 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.

