

TECHNICAL DATA SHEET

TRICOLENE LL01920B

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
Density 23 °C
Antiblock
Processing Aid
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

1.0 g/10 min
0.920 g/cm³
3,000 ppm
Yes
Yes

VALUES, INTERNATIONAL UNITS

1.0 g/10 min
0.920 g/cm³
3,000 ppm
Yes
Yes

FILM PROPERTIES *

Evaluated Film Thickness

Dart Impact Strength

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

Elmendorf Tear Strength

Tensile Strength at Yield

20.0 in/min (508 mm/min)

Tensile Strength at Break

20.0 in/min (508 mm/min)

Tensile Elongation at Break

20.0 in/min (508 mm/min)

Tensile Secant Modulus of Elasticity

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

Haze

Specular Gloss 45 °

TEST METHOD

ASTM D1709A

VALUES, ENGLISH UNITS

1.0 mils
270 g

MD 420 g
TD 605 g

MD 1,500 psi
TD 1,500 psi

MD 7,000 psi
TD 4,600 psi

MD 480 %
TD 670 %

MD 25,400 psi
TD 28,300 psi

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D1003

ASTM D2457

10.0 %
59.0

VALUES, INTERNATIONAL UNITS

25.4 μm
270 g

420 g
605 g

10 MPa
10 MPa

48 MPa
32 MPa

480 %
670 %

175 MPa
195 MPa

10.0 %
59.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Diameter
Die Gap
Blow-up Ratio, BUR

TEST METHOD

VALUES, ENGLISH UNITS

4.0 in
35 mils
2.5 ---

VALUES, INTERNATIONAL UNITS

102 mm
0.9 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.

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FLEXIBLE

