

TECHNICAL DATA SHEET

TRICOLENE LLB1918B

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

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Toughness and strength

APPLICATIONS

Agricultural, Food and Industrial Packaging

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C MFR₂
Density 23 °C
Antiblock
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

1.0 g/10 min
0.918 g/cm³
7,000 ppm
Yes

VALUES, INTERNATIONAL UNITS

1.0 g/10 min
0.918 g/cm³
7,000 ppm
Yes

FILM PROPERTIES *

Evaluated Film Thickness
Dart Impact Strength
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

TEST METHOD

ASTM D1709A

VALUES, ENGLISH UNITS

1.0 mils
90 g

VALUES, INTERNATIONAL UNITS

25.4 µm
90 g

Elmendorf Tear Strength

ASTM D1922

MD 90 g
TD 450 g

90 g
450 g

Tensile Strength at Yield
20.0 in/min (508 mm/min)

ASTM D882

MD 1,400 psi
TD 1,400 psi

10 MPa
10 MPa

Tensile Strength at Break
20.0 in/min (508 mm/min)

ASTM D882

MD 7,300 psi
TD 5,200 psi

50 MPa
36 MPa

Tensile Elongation at Break
20.0 in/min (508 mm/min)

ASTM D882

MD 570 %
TD 870 %

570 %
870 %

Tensile Secant Modulus of Elasticity
1 % Elongation, 0.051 in/min (1.3 mm/min)

ASTM D882

MD 28,000 psi
TD 33,000 psi

193 MPa
228 MPa

Haze

ASTM D1003

14.0 %

14.0 %

Specular Gloss 45 °

ASTM D2457

45.0

45.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Diameter
Die Gap
Melt Temperature
Blow-up Ratio, BUR
Specific Output

TEST METHOD

VALUES, ENGLISH UNITS

2.5 in
60 mils
405 ° F
2.5 ---
10.00 Lb/h/in

VALUES, INTERNATIONAL UNITS

64 mm
1.5 mm
207 ° C
2.5 ---
1.79 kg/h/cm

* 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.

