

TECHNICAL DATA SHEET

TRICOLINE LLB2919SB

Linear Low Density Polyethylene

777 Post Oak Blvd, Suite 550,
Houston TX, USA - 77056
+1-713-963-0066
www.triconenergy.com



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

Cast Film (Co)Extrusion

CHARACTERISTICS

Mechanical and Sealing Properties

APPLICATIONS

Cast Film for Food Packaging

RESIN PROPERTIES

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

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

2.0 g/10 min
0.919 g/cm³
1,000 ppm
5,500 ppm
Yes

VALUES, INTERNATIONAL UNITS

2.0 g/10 min
0.919 g/cm³
1,000 ppm
5,500 ppm
Yes

FILM PROPERTIES *

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

TEST METHOD

ASTM D1709A

VALUES, ENGLISH UNITS

1.0 mils
70 g

VALUES, INTERNATIONAL UNITS

25.4 µm
70 g

Elmendorf Tear Strenght

ASTM D1922

MD 120 g
TD 440 g

120 g
440 g

Tensile Strenght at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 4,500 psi
TD 3,200 psi

31 MPa
22 MPa

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 800 %
TD 980 %

800 %
980 %

Tensil 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

19.0 %

19.0 %

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Gap
Blow-up Ratio, BUR

100 mils
2.5

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.

