

TECHNICAL DATA SHEET

TRICOLENE LLO1920SB

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. This grade has slip and antiblock additives

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Easy Processability
High Toughness and Strength
Excellent Seal Properties

APPLICATIONS

High Strength Food Packaging
Sealing Layers

RESIN PROPERTIES

Melt Flow Rate 2.16 kg/190 °C MFR₂
Density 23 °C
Slip
Antiblock
Processing Aid
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

1.0 g/10 min
0.920 g/cm³
1,000 ppm
2,500 ppm
Yes
Yes

VALUES, INTERNATIONAL UNITS

1.0 g/10 min
0.920 g/cm³
1,000 ppm
2,500 ppm
Yes
Yes

BLOWN 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 Yield
20.0 in/min (508 mm/min)
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 D882
ASTM D1003
ASTM D2457

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
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 EVALUATED FILM

Die Diameter
Die Gap
Blow-up Ratio, BUR

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

