

TECHNICAL DATA SHEET

TRICOLENE®

LLB3919

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. This type of butene LLDPE does not contain any slip or antiblock additives.

PROCESSING METHODS

Cast Film Extrusion

CHARACTERISTICS

Gloss and Drawdown
Good Cling Force
Enhanced Extrusion Performance

APPLICATIONS

Cast Stretch Films

RESIN PROPERTIES

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

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, English Units

2.5 g/10 min
0.919 g/cm³
Yes

VALUES, International Units

2.5 g/10 min
0.919 g/cm³
Yes

CAST FILM PROPERTIES

Evaluated Film Thickness

Elmendorf Tear Strength

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 D1922
ASTM D882
ASTM D882
ASTM D882
ASTM D882
ASTM D1003
ASTM D2457

VALUES, English Units

0.75 mils
60 g
400 g
5,000 psi
2,300 psi
650 %
870 %
20,000 psi
20,000 psi
1.5 %
95.0

VALUES, International Units

19.1 μm
60 g
400 g
34.5 MPa
15.9 MPa
650 %
870 %
137.9 MPa
137.9 MPa
1.5 %
95.0

PROCESSING CONDITIONS OF EVALUATED FILM

Melt Temperature
Chill Roll Temperature
Specific Output

VALUES, English Units

550 ° F
80 ° F
18.00 Lb/h/in

VALUES, International Units

288 ° C
27 ° C
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.

