

TECHNICAL DATA SHEET

TRICOLENE LLB08922SB

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

Good Stiffness and Tensile Strength
Good Drawability (Thin Films)

APPLICATIONS

Garment Films
Produce Bags

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

0.8 g/10 min
0.922 g/cm³
1,700 ppm
3,500 ppm
Yes
Yes

VALUES, INTERNATIONAL UNITS

0.8 g/10 min
0.922 g/cm³
1,700 ppm
3,500 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
70 g
MD 50 g
TD 620 g
MD 1,500 psi
TD 1,600 psi
MD 8,000 psi
TD 5,000 psi
MD 540 %
TD 820 %
MD 34,000 psi
TD 39,000 psi
17.0 %
34.0

VALUES, INTERNATIONAL UNITS

25.4 µm
70 g
50 g
620 g
10 MPa
11 MPa
55 MPa
34 MPa
540 %
820 %
234 MPa
269 MPa
17.0 %
34.0

PROCESSING CONDITIONS OF EVALUATED FILM

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

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 ---
1.78 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.

Revision 1: 2021-08-17

FLEXIBLE

