

TECHNICAL DATA SHEET

TRICOLENE LDF02919B

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LDPE is a homopolymer of ethylene

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Good Mechanical Properties

APPLICATIONS

Greenhouse Films
Heavy Duty Bags
Industrial Shrink Film

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C

Density 23 °C

Antiblock

MFR₂

TEST METHOD

ASTM D1238

ASTM D1505

VALUES, ENGLISH UNITS

0.25 g/10 min

0.919 g/cm³

4,000 ppm

VALUES, INTERNATIONAL UNITS

0.25 g/10 min

0.919 g/cm³

4,000 ppm

FILM PROPERTIES *

Evaluated Film Thickness

Dart Impact Strength

38.0 mm (1.5 in), 0.66 m (26.0 in), F50

Elmendorf Tear Strength

Tensile Strength at Yield

20.0 in/min (508 mm/min)

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 D1709A

ASTM D1922

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D1003

ASTM D2457

VALUES, ENGLISH UNITS

2.0 mils

180 g

MD

340 g

TD

120 g

MD

1,600 psi

TD

1,500 psi

MD

3,600 psi

TD

3,100 psi

MD

100 %

TD

540 %

MD

26,000 psi

TD

35,000 psi

18.0 %

35.0

VALUES, INTERNATIONAL UNITS

50.8 μm

180 g

340 g

120 g

11 MPa

10 MPa

25 MPa

21 MPa

100 %

540 %

179 MPa

241 MPa

18.0 %

35.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Diameter

Die Gap

Melt Temperature

Chill Roll Temperature

Blow-up Ratio, BUR

Specific Output

TEST METHOD

VALUES, ENGLISH UNITS

2.5 in

30 mils

370 ° F

80 ° F

2.5 ---

8.00 Lb/h/in

VALUES, INTERNATIONAL UNITS

64 mm

0.8 mm

188 ° C

27 ° C

2.5 ---

1.43 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.

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FLEXIBLE

