

TECHNICAL DATA SHEET

TRICOLENE LDF2919

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LDPE is a homopolymer of ethylene produced in a tubular polymerization process

PROCESSING METHODS

Blown Film (Co)Extrusion
Foam Extrusion

CHARACTERISTICS

Good Mechanical Properties

APPLICATIONS

Lamination Films
Foams

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C
Density 23 °C

MFR₂

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

2.1 g/10 min
0.919 g/cm³

VALUES, INTERNATIONAL UNITS

2.1 g/10 min
0.919 g/cm³

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

1.5 mils
110 g

VALUES, INTERNATIONAL UNITS

38.1 µm
110 g

Elmendorf Tear Strenght

ASTM D1922

MD 450 g
TD 90 g

450 g
90 g

Tensile Strenght at Yield

20.0 in/min (508 mm/min)

ASTM D882

MD 1,400 psi
TD 1,500 psi

10 MPa
10 MPa

Tensile Strenght at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 4,000 psi
TD 3,000 psi

28 MPa
21 MPa

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 190 %
TD 590 %

190 %
590 %

Tensil Secant Modulus of Elasticity

1 % Elongation, 0.051 in/min (1.3 mm/min)

ASTM D882

MD 25,000 psi
TD 34,000 psi

172 MPa
234 MPa

Haze

ASTM D1003

10.0 %

10.0 %

Specular Gloss 45 °

ASTM D2457

50.0

50.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

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

TEST METHOD

VALUES, ENGLISH UNITS

2.6 in
30 mils
355 ° F
2.5 ---
8.00 Lb/h/in

VALUES, INTERNATIONAL UNITS

66 mm
0.8 mm
179 ° 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.

