

TECHNICAL DATA SHEET

TRICOLENE LDF4922

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of Prime LDPE is a homopolymer of ethylene

PROCESSING METHODS

Blown Film (Co)Extrusion
Cast Film (Co)Extrusion

CHARACTERISTICS

High Clarity Properties
Excellent Processability and Draw Down
High COF

APPLICATIONS

Very Thin Films for Lamination
Cast Stretch Films
Laundry Films

RESIN PROPERTIES

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

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

4.0 g/10 min
0.922 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

4.0 g/10 min
0.922 g/cm³
Yes

FILM PROPERTIES *

Evaluated Film Thickness
Dart Impact Strength
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

TEST METHOD

ASTM D1709A

VALUES, ENGLISH UNITS

1.2 mils
70 g

VALUES, INTERNATIONAL UNITS

30.5 µm
70 g

Elmendorf Tear Strength

ASTM D1922

MD

290 g

290 g

Tensile Strength at Yield

20.0 in/min (508 mm/min)

ASTM D882

MD

1,500 psi

10 MPa

Tensile Strength at Break

20.0 in/min (508 mm/min)

ASTM D882

MD

3,300 psi

23 MPa

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

MD

180 %

180 %

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

TD

490 %

490 %

Tensile Secant Modulus of Elasticity

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

ASTM D882

MD

25,000 psi

172 MPa

Haze

ASTM D1003

TD

30,000 psi

207 MPa

Specular Gloss 45 °

ASTM D2457

71.0

71.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Diameter
Die Gap
Blow-up Ratio, BUR

TEST METHOD

VALUES, ENGLISH UNITS

7.87 in
39 mils
2.5 ---

VALUES, INTERNATIONAL UNITS

200 mm
1.0 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.

