

TECHNICAL DATA SHEET

TRICOLENE LDF2921SB

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
Cast Film (Co)Extrusion

CHARACTERISTICS

Good Optical Properties
Good Processability

APPLICATIONS

General Purpose Packaging

RESIN PROPERTIES

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

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

2.0 g/10 min
0.921 g/cm³
750 ppm
1,500 ppm
Yes

VALUES, INTERNATIONAL UNITS

2.0 g/10 min
0.921 g/cm³
750 ppm
1,500 ppm
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

1.5 mils
120 g

VALUES, INTERNATIONAL UNITS

38.1 µm
120 g

Elmendorf Tear Strength

ASTM D1922

MD 440 g
TD 110 g

440 g
110 g

Tensile Strength at Yield

20.0 in/min (508 mm/min)

ASTM D882

MD 1,500 psi
TD 1,600 psi

10 MPa
11 MPa

Tensile Strength at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 3,600 psi
TD 2,700 psi

25 MPa
19 MPa

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 130 %
TD 490 %

130 %
490 %

Haze

ASTM D1003

6.1 %

6.1 %

Specular Gloss 45 °

ASTM D2457

68.0

68.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

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

TEST METHOD

VALUES, ENGLISH UNITS

2.5 in
30 mils
350 ° F
2.5 ---
8.00 Lb/h/in

VALUES, INTERNATIONAL UNITS

64 mm
0.8 mm
177 ° 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.

