

TECHNICAL DATA SHEET

TRICOLENE LDF2921SB-4

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of Prime LDPE is a homopolymer of ethylene with Slip and Antiblock Additives

PROCESSING METHODS

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

CHARACTERISTICS

Very High Optical Properties
Excellent Processability

APPLICATIONS

Bread Bags
Textile Packaging

RESIN PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

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

ASTM D1238
ASTM D1505

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

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

BLOWN FILM PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

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

ASTM D1709A

1.25 mils
90 g

31.8 µm
90 g

Elmendorf Tear Strenght

ASTM D1922

MD 360 g
TD 200 g

360 g
200 g

Tensile Strenght at Yield

ASTM D882

MD 1,500 psi
TD 1,600 psi

10 MPa
11 MPa

Tensile Strenght at Break

ASTM D882

MD 4,000 psi
TD 3,400 psi

28 MPa
23 MPa

Tensile Elongation at Break

ASTM D882

MD 300 %
TD 500 %

300 %
500 %

Tensil Secant Modulus of Elasticity

ASTM D882

MD 26,000 psi
TD 30,000 psi

179 MPa
207 MPa

Haze

ASTM D1003

5.0 %

5.0 %

Specular Gloss 45 °

ASTM D2457

70.0

70.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter
Die Gap
Blow-up Ratio, BUR
Output

8.00 in
25 mils
2.0 ---
130.0 Lb/h

203 mm
0.6 mm
2.0 ---
59.0 kg/h

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

