

TECHNICAL DATA SHEET

TRICOLENE® LDF02919

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of Heavy-Duty LDPE is a high molecular weight homopolymer of ethylene (HMW-LDPE). This reference does not have any slip or antiblock additives.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

Good Mechanical Properties
Excellent Bubble Stability
Easy Processability and High Melt Strength

APPLICATIONS

Greenhouse Films
Heavy Duty Bags
Industrial Shrink Film

RESIN PROPERTIES

TEST METHOD

VALUES, English Units

VALUES, International Units

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

ASTM D1238
ASTM D1505

0.25 g/10 min
0.919 g/cm³
Yes

0.25 g/10 min
0.919 g/cm³
Yes

RESIN PROPERTIES

TEST METHOD

VALUES, English Units

VALUES, International Units

Evaluated Film Thickness
Dart Impact Strength
23 °C, 1.5 in (38.0 mm), 26.0 in (0.66 mm), F50

ASTM D1709A

2.0 mils
250 g/F50

50.8 µm
250 g/F50

Elmendorf Tear Strength

ASTM D1922

MD 170 g
TD 220 g

170 g
220 g

Tensile Strength at Yield
20.0 in/min (508 mm/min)

ASTM D882

MD 1,500 psi
TD 1,500 psi

10.3 MPa
10.3 MPa

Tensile Strength at Break
20.0 in/min (508 mm/min)

ASTM D882

MD 3,500 psi
TD 2,700 psi

24.1 MPa
18.6 MPa

Tensile Elongation at Break
20.0 in/min (508 mm/min)

ASTM D882

MD 250 %
TD 750 %

250 %
750 %

Tensile Secant Modulus of Elasticity
1 % Elongation, 0.051 in/min (1.3 mm/min)

ASTM D882

MD 22,000 psi
TD 28,800 psi

151.7 MPa
198.6 MPa

Haze

ASTM D1003

7.5 %

7.5 %

Specular Gloss 45 °

ASTM D2457

62.0

62.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, English Units

VALUES, International Units

Die Gap
Blow-up Ratio, BUR

35 mils
2.5 ---

0.9 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.

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FLEXIBLE

