

TECHNICAL DATA SHEET

TRICOLENE® LDF03922

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. This reference does not have any slip or antiblock additives.

PROCESSING METHODS

Blown Film Extrusion
Extrusion Blow Molding

CHARACTERISTICS

Good Mechanical Properties

APPLICATIONS

Greenhouse Films
Heavy Duty Bags
Industrial Shrink Film

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

0.33 g/10 min
0.922 g/cm³
Yes

VALUES, International Units

0.33 g/10 min
0.922 g/cm³
Yes

RESIN PROPERTIES

Evaluated Film Thickness
Dart Impact Strength
38.0 mm (1.5 in), 0.66 m (26.0 in), F50
Elmendorf Tear Strength
Tensile Strength at Yield
20.0 in/min (508 mm/min)
Tensile Strength at Break
20.0 in/min (508 mm/min)
Tensile Elongation at Break
20.0 in/min (508 mm/min)
Tensile Secant Modulus of Elasticity
1 % Elongation, 0.051 in/min (1.3 mm/min)
Haze
Specular Gloss 45 °

TEST METHOD

ASTM D1709A
ASTM D1922
ASTM D882
ASTM D882
ASTM D882
ASTM D882
ASTM D882
ASTM D882
ASTM D1003
ASTM D2457

VALUES, English Units

2.0 mils
180 g/F50
MD 190 g
TD 150 g
MD 1,800 psi
TD 1,800 psi
MD 4,500 psi
TD 4,000 psi
MD 150 %
TD 630 %
MD 32,000 psi
TD 43,000 psi
15.0 %
39.0

VALUES, International Units

50.8 µm
180 g/F50
190 g
150 g
12.4 MPa
12.4 MPa
31.0 MPa
27.6 MPa
150 %
630 %
220.7 MPa
296.6 MPa
15.0 %
39.0

PROCESSING CONDITIONS OF EVALUATED FILM

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

VALUES, English Units

2.5 in
30 mils
370 °F
2.5 ---
8.00 Lb/h/in

VALUES, International Units

64 mm
0.8 mm
188 °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.

Revision 2: 2022-06-23

FLEXIBLE

