

TECHNICAL DATA SHEET

TRICOLENE mLLH1918

Linear Low Density Polyethylene
Metallocene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of mLLDPE is a copolymer of ethylene and 1-hexene produced with Metallocene catalysts in a gas phase polymerization process.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

Good Impact and Tensile Properties
Good Processability
Good Sealability

APPLICATIONS

Heavy Duty Bags
Lamination Films
Stretch Hood

RESIN PROPERTIES

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

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

1.0 g/10 min
0.918 g/cm³
Yes
Yes

VALUES, INTERNATIONAL UNITS

1.0 g/10 min
0.918 g/cm³
Yes
Yes

BLOWN 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

1.0 mils
490 g

VALUES, INTERNATIONAL UNITS

25.4 µm
490 g

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)

Haze

Specular Gloss 45 °

TEST METHOD

ASTM D1922

TEST METHOD

ASTM D882

TEST METHOD

ASTM D882

TEST METHOD

ASTM D882

TEST METHOD

ASTM D1003

TEST METHOD

ASTM D2457

VALUES, ENGLISH UNITS

MD 259 g
TD 486 g

MD 1,410 psi
TD 1,410 psi

MD 7,612 psi
TD 6,453 psi

MD 540 %
TD 640 %

17.5 %

40.0

VALUES, INTERNATIONAL UNITS

259 g
486 g

9.7 MPa
9.7 MPa

52.5 MPa
44.5 MPa

540 %
640 %

17.5 %

40.0

PROCESSING CONDITIONS OF EVALUATED FILM

Blow-up Ratio, BUR

VALUES, ENGLISH UNITS

2.5 ---

VALUES, INTERNATIONAL UNITS

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.

Revision 2: 2021-12-09

FLEXIBLE

