

TECHNICAL DATA SHEET

TRICOLENE LLH2918-9

Linear Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

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

PROCESSING METHODS

Cast Film (Co)Extrusion

CHARACTERISTICS

Good Mechanical Properties

APPLICATIONS

Cast Stretch Film
Packaging Films

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

2.0 g/10 min
0.918 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

2.0 g/10 min
0.918 g/cm³
Yes

FILM 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

0.8 mils
100 g

MD 260 g
TD 420 g

MD 1,500 psi
TD 1,500 psi

MD 5,700 psi
TD 4,200 psi

MD 500 %
TD 780 %

MD 21,800 psi
TD 24,700 psi

MD 2.0 %
TD 2.0 %

90.0

VALUES, INTERNATIONAL UNITS

20.3 µm
100 g

260 g
420 g

10 MPa
10 MPa

39 MPa
29 MPa

500 %
780 %

150 MPa
170 MPa

2.0 %
2.0 %

90.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Width
Melt Temperature
Chill Roll Temperature
Blow-up Ratio, BUR
Output
Specific Output
Take-off Speed

TEST METHOD

VALUES, ENGLISH UNITS

3.5 in
500 °F
80 °F
2.5 ---
100.0 Lb/h
10.00 Lb/h/in
800.0 ft/min

VALUES, INTERNATIONAL UNITS

89 mm
260 °C
27 °C
2.5 ---
45.4 kg/h
1.79 kg/h/cm
243.9 m/min

*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

