

TECHNICAL DATA SHEET

TRICOLENE LLH2918

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

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/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 Strenght
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

TEST METHOD

ASTM D1709A

VALUES, ENGLISH UNITS

1.0 mils
90 g

VALUES, INTERNATIONAL UNITS

25.4 μm
90 g

Elmendorf Tear Strenght

ASTM D1922

MD 200 g
TD 650 g

200 g
650 g

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

ASTM D882

MD 5,200 psi
TD 3,000 psi

36 MPa
21 MPa

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

ASTM D882

MD 450 %
TD 800 %

450 %
800 %

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

ASTM D882

MD 22,000 psi
TD 25,000 psi

152 MPa
172 MPa

Haze

ASTM D1003

2.5 %

2.5 %

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Gap
Blow-up Ratio, BUR

100 mils
2.5 ---

2.5 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.

