

TECHNICAL DATA SHEET

TRICOLENE LLH3918

Linear Low Density Polyethylene

777 Post Oak Blvd, Suite 550,
Houston TX, USA - 77056
+1-713-963-0066
www.triconenergy.com



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

Enhanced Film Strength and Drawdown
High Unitization Holding Force

APPLICATIONS

Cast Stretch Film

RESIN PROPERTIES

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

ASTM D1238

3.2 g/10 min

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ASTM D1505

0.918 g/cm³

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Yes

Yes

CAST FILM PROPERTIES

Evaluated Film Thickness

0.8 mils

20.3 µm

Dart Impact Strenght

ASTM D1709A

104 g

104 g

38.0 mm (1.5 in), 0.66 m (26.0 in), F50

Elmendorf Tear Strenght

ASTM D1922

MD

309 g

309 g

TD

764 g

764 g

Tensile Strenght at Break

ASTM D882

MD

5,670 psi

39 MPa

TD

3,340 psi

23 MPa

Tensile Elongation at Break

ASTM D882

MD

481 %

481 %

TD

735 %

735 %

Tensil Secant Modulus of Elasticity

ASTM D882

MD

24,400 psi

168 MPa

TD

25,800 psi

178 MPa

1 % Elongation, 0.051 in/min (1.3 mm/min)

Haze

ASTM D1003

1.4 %

1.4 %

Specular Gloss 45°

ASTM D2457

75.0

75.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Melt Temperature

455 ° F

235 ° C

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 1: 2021-05-19

FLEXIBLE

