

TECHNICAL DATA SHEET

TRICOLENE LLH1918-4

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 without slip and antiblock additives (no additives) produced with Ziegler-Natta catalysts in a gas phase polymerization process

PROCESSING METHODS

Blown Film (Co)Extrusion
Sheet (Co)Extrusion
Profile Extrusion

CHARACTERISTICS

Excellent Strength and Toughness
Enhanced Seal Strength
Low Temperature Resistance

APPLICATIONS

Heavy Duty Shipping Sacks
Commercial and Industrial Packaging

RESIN PROPERTIES

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

ASTM D1238
ASTM D1505

1.0 g/10 min
0.918 g/cm³
Yes

1.0 g/10 min
0.918 g/cm³
Yes

BLOWN FILM PROPERTIES

Evaluated Film Thickness
Dart Impact Strenght
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

ASTM D1709A

1.0 mils
190 g

25.4 µm
190 g

Elmendorf Tear Strenght

ASTM D1922

MD 325 g
TD 650 g

325 g
650 g

Tensile Strenght at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 8,100 psi
TD 6,100 psi

56 MPa
42 MPa

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 580 %
TD 700 %

580 %
700 %

Tensil Secant Modulus of Elasticity

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

ASTM D882

MD 29,000 psi
TD 32,500 psi

200 MPa
224 MPa

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 1: 2021-10-19

FLEXIBLE

