

TECHNICAL DATA SHEET

TRICOLENE LLB3918

Linear Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of prime LLDPE is a copolymer of ethylene and 1-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process. This type of butene LDPE does not contain any slip or antiblock additives.

PROCESSING METHODS

Cast Film Extrusion

CHARACTERISTICS

Easy Processing
Excellent Drawdown

APPLICATIONS

Hand Stretch Cast Film
Melt Embossed Films

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

2.8 g/10 min
0.918 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

2.8 g/10 min
0.918 g/cm³
Yes

CAST FILM PROPERTIES

Evaluated Film Thickness
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 D882
ASTM D882
ASTM D1003
ASTM D2457

VALUES, ENGLISH UNITS

0.83 mils
MD 7,250 psi
TD 3,335 psi
MD 530 %
TD 840 %
1.7 %
95.0

VALUES, INTERNATIONAL UNITS

21.0 μm
50.0 MPa
23.0 MPa
530 %
840 %
1.7 %
95.0

PROCESSING CONDITIONS OF EVALUATED FILM

Melt Temperature
Take-off Speed

VALUES, ENGLISH UNITS

550 ° F
780.6 ft/min

VALUES, INTERNATIONAL UNITS

288 ° C
238.0 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.

