

TECHNICAL DATA SHEET

TRICOLENE LLB2918SB-13

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 LLDPE contains slip and antiblock additives.

PROCESSING METHODS

Blown Film Extrusion
Cast Film Extrusion

CHARACTERISTICS

Good Toughness and Strength
Excellent Drawdown

APPLICATIONS

Garment Films
Agricultural, Food and Industrial Packaging
Multilayer Packaging Films

RESIN PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Melt Flow Rate 2.16 kg/190 °C MFR ₂	ASTM D1238	2.0 g/10 min	2.0 g/10 min
Density 23 °C	ASTM D1505	0.918 g/cm ³	0.918 g/cm ³
Slip	---	1,500 ppm	1,500 ppm
Antiblock	---	3,500 ppm	3,500 ppm
Antioxidant Package	---	Yes	Yes

BLOWN FILM PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Evaluated Film Thickness	---	1.0 mils	25.4 µm
Dart Impact Strenght 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	ASTM D1709A	60 g	60 g
Elmendorf Tear Strenght	ASTM D1922	MD 110 g TD 390 g	110 g 390 g
Tensile Strenght at Yield 20.0 in/min (508 mm/min)	ASTM D882	MD 1,261 psi TD 1,421 psi	8.7 MPa 9.8 MPa
Tensile Strenght at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 5,220 psi TD 3,915 psi	36.0 MPa 27.0 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 620 % TD 770 %	620 % 770 %
Haze	ASTM D1003	23.0 %	23.0 %
Specular Gloss 45 °	ASTM D2457	28.0	28.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Blow-up Ratio, BUR

2.5 --

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: 2021-11-22

FLEXIBLE

