

TECHNICAL DATA SHEET

TRICOLENE LLB3925SB-3

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-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process.

PROCESSING METHODS

Cast Film (Co)Extrusion
Blown Film (Co)Extrusion

CHARACTERISTICS

Increased Stiffness
High Drawability (Thin Films)

APPLICATIONS

Bread Bags
Paper Overwrap

RESIN PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Melt Flow Rate 2.16 kgf/190 °C MFR ₂	ASTM D1238	3.6 g/10 min	3.6 g/10 min
Density 23 °C	ASTM D1505	0.925 g/cm ³	0.925 g/cm ³
Slip	---	1,500 ppm	1,500 ppm
Antiblock	---	6,000 ppm	6,000 ppm
Processing Aid	---	Yes	Yes
Antioxidant Package	---	Yes	Yes

CAST FILM PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Evaluated Film Thickness	---	0.8 mils	20.3 µm
Dart Impact Strength 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	ASTM D1709A	50 g	50 g
Elmendorf Tear Strength	ASTM D1922	MD 20 g TD 300 g	20 g 300 g
Tensile Strength at Yield 20.0 in/min (508 mm/min)	ASTM D882	MD 1,500 psi TD 1,500 psi	10 MPa 10 MPa
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 6,500 psi TD 3,500 psi	45 MPa 24 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 610 % TD 850 %	610 % 850 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 29,000 psi TD 31,000 psi	200 MPa 214 MPa
Haze	ASTM D1003	1.1 %	1.1 %
Specular Gloss 45 °	ASTM D2457	92.0	92.0

PROCESSING CONDITIONS OF EVALUATED FILM

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Melt Curtain Length	5.5 in	140 mm
Melt Temperature	520 °F	271 °C
Chill Roll Temperature	80 °F	27 °C
Take-off Speed	750.0 ft/min	228.7 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.

Revision 1: 2021-08-17

FLEXIBLE

