

TECHNICAL DATA SHEET

LLB1918SB

Linear Low Density Polyethylene



ADDING A WORLD OF VALUE

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

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

Blown Film (Co)Extrusion

CHARACTERISTICS

Toughness and strength

APPLICATIONS

Agricultural, Food and Industrial Packaging.

RESIN PROPERTIES

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C	ASTM D1238	1.0 g/10 min	1.0 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	---	6,300 ppm	6,300 ppm
Antioxidant Package	---	Yes	Yes

FILM PROPERTIES *

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Evaluated Film Thickness	---	1.0 mils	25.4 µm
Dart Impact Strength 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	ASTM D1709A	100 g	100 g
Elmendorf Tear Strength	ASTM D1922	MD 100 g TD 330 g	100 g 330 g
Tensile Strength at Yield 20.0 in/min (508 mm/min)	ASTM D882	MD 1,600 psi TD 1,600 psi	11 MPa 11 MPa
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 7,100 psi TD 4,900 psi	49 MPa 34 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 540 % TD 830 %	540 % 830 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0,051 in/min (1,3 mm/min)	ASTM D882	MD 29,000 psi TD 33,400 psi	200 MPa 230 MPa
Haze	ASTM D1003	11.0 %	11.0 %
Specular Gloss 45 °	ASTM D2457	56.0	56.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Die Diameter		4.0 in	102 mm
Die Gap		100 mils	2.5 mm
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.