TECHNICAL DATA SHEET

TRICOLENE LLB1919SB

Linear Low Density Polyethylene

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TRICON

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. This product contains slip and antiblock additives.

PROCESSING METHODS	CHARACTERISTICS	APPLICATIONS
Blown Film Extrusion	Good Mechanical Properties	Trash Bags
	Good Mixing with LDPE	Agricultural Films
	Production of Thin Films	Liners for Drums

RESIN PROPERTIES	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C MFR_2	ASTM D1238	**1.1** g/10 min	**1.1** g/10 min
Density 23 °C	ASTM D1505	**0.919** g/cm^3	**0.919** g/cm^3
Slip	---	**1,000** ppm	**1,000** ppm
Antiblock	---	**5,500** ppm	**5,500** ppm
Processing Aid	---	**None**	**None**
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		**120** g	**120** g
Elmendorf Tear Strenght	ASTM D1922	MD	**130** g	**130** g
		TD	**490** g	**490** g
Tensile Strenght at Break 20,0 in/min (508 mm/min)	ASTM D882	MD	**5,500** psi	**38** MPa
		TD	**3,500** psi	**24** MPa
Tensile Elongation at Break 20,0 in/min (508 mm/min)	ASTM D882	MD	**800** %	**800** %
		TD	**950** %	**950** %
Tensil Secant Modulus of Elasticity 1 % Elongation, 0,051 in/min (1,3 mm/min)	ASTM D882	MD	**27,000** psi	**186** MPa
		TD	**33,000** psi	**228** MPa
Haze	ASTM D1003		**9.0** %	**9.0** %

PROCESSING CONDITIONS OF EVALUATED FILM	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Die Diameter	**6.0** in	**152** mm
Die Gap	**100** mils	**2.5** mm
Melt Temperature	**450** ° F	**232** ° C
Blow-up Ratio, BUR	**2.5** ---	**2.5** ---
Output	**100.0** Lb/h	**45.4** kg/h
Specific Output	**5.31** Lb/h/in	**0.09** kg/h/cm
Take-off Speed	**800.0** ft/min	**243.9** 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.

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FLEXIBLE