

TRICOLENE LLO1920SB

Linear Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LLDPE is a copolymer of ethylene and 1-octene produced with Ziegler-Natta catalysts in a solution polymerization process. This grade has slip and antiblock additives

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Easy Processability
High Toughness and Strength
Excellent Seal Properties

APPLICATIONS

High Strength Food Packaging
Sealing Layers

RESIN PROPERTIES

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C	MFR ₂	ASTM D1238	1.0 g/10 min
Density 23 °C		ASTM D1505	0.920 g/cm ³
Slip		---	1,000 ppm
Antiblock		---	2,500 ppm
Processing Aid		---	Yes
Antioxidant Package		---	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	270 g	270 g
Elmendorf Tear Strenght	ASTM D1922	MD 420 g TD 605 g	420 g 605 g
Tensile Strenght at Yield 20.0 in/min (508 mm/min)	ASTM D882	MD 1,500 psi TD 1,500 psi	10 MPa 10 MPa
Tensile Strenght at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 7,000 psi TD 4,600 psi	48 MPa 32 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 480 % TD 670 %	480 % 670 %
Tensil Secant Modulus of Elasticity 1 % Elongation, 0,051 in/min (1,3 mm/min)	ASTM D882	MD 25,400 psi TD 28,300 psi	175 MPa 195 MPa
Haze	ASTM D1003	10.0 %	10.0 %
Specular Gloss 45 °	ASTM D2457	59.0	59.0

PROCESSING CONDITIONS OF EVALUATED FILM

	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Die Diameter	4.0 in	102 mm
Die Gap	35 mils	0.9 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.