

TECHNICAL DATA SHEET

TRICOLENE® LLH1919SBY

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-hexene produced with Ziegler-Natta catalysts in a gas phase polymerization process. This reference contains high slip and high antiblock additives

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

Good Sealability
Good Impact Strength
Good Openability

APPLICATIONS

Consumer and Industrial Packaging
Thin Bags (Film Thickness < 1.2 mil)

RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Melt Flow Rate 2.16 kg/190 °C MFR ₂	ASTM D1238	1.0 g/10 min	1.0 g/10 min
Density 23 °C	ASTM D1505	0.919 g/cm ³	0.919 g/cm ³
Slip	---	1,500 ppm	1,500 ppm
Antiblock	---	7,500 ppm	7,500 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 Strength 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	ASTM D1709A	220 g/F50	220 g/F50
Elmendorf Tear Strength	ASTM D1922	MD 300 g TD 700 g	300 g 700 g
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 5,900 psi TD 4,100 psi	40.7 MPa 28.3 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 670 % TD 900 %	670 % 900 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 30,000 psi TD 36,000 psi	206.9 MPa 248.3 MPa
Haze	ASTM D1003	15.0 %	15.0 %
Specular Gloss 45 °	ASTM D2457	50.0	50.0

PROCESSING CONDITIONS OF EVALUATED FILM

Die Gap
Blow-up Ratio, BUR

VALUES, English Units

100 mils
2.5 ---

VALUES, International Units

2.5 mm
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.

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FLEXIBLE

