

TECHNICAL DATA SHEET

TRICOLENE LLH1920SB

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.

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Good Impact and Tear Strength

APPLICATIONS

Consumer and Industrial Packaging

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	1.0 g/10 min
Density 23 °C	ASTM D1505 0.920 g/cm ³	0.920 g/cm ³
Slip	---	1,200 ppm
Antiblock	---	3,500 ppm
Antioxidant Package	---	Yes

FILM PROPERTIES *

TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Evaluated Film Thickness	---	1.0 mils 25.4 μm
Dart Impact Strength	ASTM D1709A 200 g	200 g
Tensile Strength at Break	ASTM D882 MD 6,700 psi 4,300 psi	46 MPa 30 MPa
Tensile Elongation at Break	ASTM D882 MD 750 % TD 1,000 %	750 % 1,000 %
Tensile Secant Modulus of Elasticity	ASTM D882 MD 29,000 psi 35,000 psi	200 MPa 241 MPa
Haze	ASTM D1003 16.0 %	16.0 %
Specular Gloss 45°	ASTM D2457 50.0	50.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
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.

