

TECHNICAL DATA SHEET

mLLH1918SB

Linear Low Density Polyethylene
Metallocene



ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of mLLDPE is a copolymer of ethylene and 1-hexene produced with Metallocene catalysts in a gas phase polymerization process.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

Good Impact and Tensile Properties
Good Processability
Good Sealability

APPLICATIONS

Consumer and Industrial Packaging
Automatic Food Packaging

RESIN PROPERTIES

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Melt Flow Rate 2.16 kgf/190 °C	MFR ₂	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	---	1,000 ppm	1,000 ppm
Antiblock	---	5,000 ppm	5,000 ppm
Processing Aid	---	Yes	Yes
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	490 g	490 g
Elmendorf Tear Strength	ASTM D1922	MD 259 g TD 486 g	259 g 486 g
Tensile Strength at Yield 20,0 in/min (508 mm/min)	ASTM D882	MD 1,410 psi TD 1,410 psi	9.7 MPa 9.7 MPa
Tensile Strength at Break 20,0 in/min (508 mm/min)	ASTM D882	MD 7,612 psi TD 6,453 psi	52.5 MPa 44.5 MPa
Tensile Elongation at Break 20,0 in/min (508 mm/min)	ASTM D882	MD 540 % TD 640 %	540 % 640 %
Haze	ASTM D1003	20.0 %	20.0 %
Specular Gloss 45°	ASTM D2457	40.0	40.0

PROCESSING CONDITIONS OF EVALUATED FILM

	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
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.