

TECHNICAL DATA SHEET

TRICOLENE® LDF02919SB

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of Heavy-Duty LDPE is a high molecular weight homopolymer of ethylene (HMW-LDPE). This reference contains slip and antiblock additives.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

Good Mechanical Properties
Excellent Bubble Stability
Easy Processability and High Melt Strength

APPLICATIONS

High Strength Films for Automatic Food Packaging

RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Melt Flow Rate 2.16 kg/190 °C MFR ₂	ASTM D1238	0.25 g/10 min	0.25 g/10 min
Density 23 °C	ASTM D1505	0.919 g/cm ³	0.919 g/cm ³
Slip	---	400 ppm	400 ppm
Antiblock	---	4,000 ppm	4,000 ppm
Antioxidant Package	---	Yes	Yes
RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Evaluated Film Thickness	---	2.0 mils	50.8 µm
Dart Impact Strength 23 °C, 1.5 in (38.0 mm), 26.0 in (0.66 m), F50	ASTM D1709A	250 g/mil F50	250 g/25.4 µm F50
Elmendorf Tear Strength	ASTM D1922	MD 170 g TD 220 g	170 g 220 g
Tensile Strength at Yield 20.0 in/min (508 mm/min)	ASTM D882	MD 1,500 psi TD 1,500 psi	10.3 MPa 10.3 MPa
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 3,500 psi TD 2,700 psi	24.1 MPa 18.6 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 250 % TD 750 %	250 % 750 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 22,000 psi TD 28,800 psi	151.7 MPa 198.6 MPa
Haze	ASTM D1003	7.5 %	7.5 %
Specular Gloss 45 °	ASTM D2457	62.0	62.0

PROCESSING CONDITIONS OF EVALUATED FILM

Die Gap
Blow-up Ratio, BUR

VALUES, English Units

35 mils
2.5 ---

VALUES, International Units

0.9 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

