

TECHNICAL DATA SHEET

TRICOLENE LDF06919

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of Medium-Heavy Duty LDPE is a high molecular weight homopolymer of ethylene produced in a polymerization process using a tubular reactor. This reference does not have any slip or antiblock additives.

PROCESSING METHODS

Blown Film Extrusion

CHARACTERISTICS

Good Mechanical Properties
Excellent Bubble Stability

APPLICATIONS

Industrial Shrink Film
Heavy Duty Bags

RESIN PROPERTIES	TEST METHOD	VALUES, English Units	VALUES, International Units
Melt Flow Rate 2.16 kgf/190 °C MFR ₂	ASTM D1238	0.60 g/10 min	0.60 g/10 min
Density 23 °C	ASTM D1505	0.919 g/cm ³	0.919 g/cm ³
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	130 g/mil F50	130 g/25.4 µm F50
Tensile Strength at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 3,700 psi TD 2,900 psi	25.5 MPa 20.0 MPa
Tensile Elongation at Break 20.0 in/min (508 mm/min)	ASTM D882	MD 280 % TD 740 %	280 % 740 %
Tensile Secant Modulus of Elasticity 1 % Elongation, 0.051 in/min (1.3 mm/min)	ASTM D882	MD 29,000 psi TD 34,500 psi	200.0 MPa 237.9 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.

