

# TRICOLENE LLB1918

## 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-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process.

### PROCESSING METHODS

Blown Film (Co)Extrusion

### CHARACTERISTICS

Toughness and strength

### APPLICATIONS

Agricultural, Food and Industrial Packaging

### RESIN PROPERTIES

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
<b>Melt Flow Rate</b> 2.16 kgf/190 °C MFR <sub>2</sub>	ASTM D1238	1.0 g/10 min	1.0 g/10 min
<b>Density</b> 23 °C	ASTM D1505	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>
<b>Processing Aid</b>	---	Yes	Yes
<b>Antioxidant Package</b>	---	Yes	Yes

### BLOWN FILM PROPERTIES

	TEST METHOD	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
<b>Evaluated Film Thickness</b>	---	1.0 mils	25.4 μm
<b>Dart Impact Strenght</b> 38.0 mm (1.5 in), 0.66 m (26.0 in), F50	ASTM D1709A	90 g	90 g
<b>Elmendorf Tear Strenght</b>	ASTM D1922	MD 90 g TD 450 g	90 g 450 g
<b>Tensile Strenght at Yield</b> 20,0 in/min (508 mm/min)	ASTM D882	MD 1,400 psi TD 1,400 psi	10 MPa 10 MPa
<b>Tensile Strenght at Break</b> 20,0 in/min (508 mm/min)	ASTM D882	MD 7,300 psi TD 5,200 psi	50 MPa 36 MPa
<b>Tensile Elongation at Break</b> 20,0 in/min (508 mm/min)	ASTM D882	MD 570 % TD 870 %	570 % 870 %
<b>Tensil Secant Modulus of Elasticity</b> 1 % Elongation, 0,051 in/min (1,3 mm/min)	ASTM D882	MD 28,000 psi TD 33,000 psi	193 MPa 228 MPa
<b>Haze</b>	ASTM D1003	14.0 %	14.0 %
<b>Specular Gloss</b> 45 °	ASTM D2457	45.0	45.0

### PROCESSING CONDITIONS OF EVALUATED FILM

	VALUES, ENGLISH UNITS	VALUES, INTERNATIONAL UNITS
Die Diameter	2.5 in	64 mm
Die Gap	60 mils	1.5 mm
Melt Temperature	405 ° F	207 ° C
Blow-up Ratio, BUR	2.5 ---	2.5 ---
Specific Output	10.00 Lb/h/in	1.79 kg/h/cm

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.