

### TECHNICAL DATA SHEET

# TRICOLENE mLLH15918SB

Linear Low Density Polyethylene  
Metallocene

777 Post Oak Blvd, Suite 550,  
Houston TX, USA - 77056  
+1-713-963-0066  
www.triconenergy.com



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. This reference contains slip and antiblock additives.

### 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 kg/190 °C MFR<sub>2</sub>

ASTM D1238

1.4 g/10 min

1.4 g/10 min

**Density** 23 °C

ASTM D1505

0.918 g/cm<sup>3</sup>

0.918 g/cm<sup>3</sup>

**Slip**

---

800 ppm

800 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 Strenght**

ASTM D1709A

450 g

450 g

38.0 mm (1.5 in), 0.66 m (26.0 in), F50

**Elmendorf Tear Strenght**

ASTM D1922

MD

300 g

300 g

TD

434 g

434 g

**Tensile Strenght at Yield**

ASTM D882

MD

1,380 psi

9.5 MPa

20.0 in/min (508 mm/min)

TD

1,455 psi

10.0 MPa

**Tensile Strenght at Break**

ASTM D882

MD

9,135 psi

63.0 MPa

20.0 in/min (508 mm/min)

TD

8,750 psi

60.3 MPa

**Tensile Elongation at Break**

ASTM D882

MD

590 %

590 %

20.0 in/min (508 mm/min)

TD

700 %

700 %

**Haze**

ASTM D1003

18.0 %

18.0 %

**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.

Revision 1: 2022-02-22

**FLEXIBLE**

