

TECHNICAL DATA SHEET

TRICOLENE® mLLH45920

Linear Low Density Polyethylene
Metallocene

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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 does not contain any slip or antiblock additives.

PROCESSING METHODS

Cast Film Extrusion

CHARACTERISTICS

High Puncture Resistance
High Stretchability
High Unitization Holding Force

APPLICATIONS

Cast Stretch Films
Lamination Films

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C
Density 23 °C
Antioxidant Package

MFR₂

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, English Units

4.5 g/10 min
0.920 g/cm³
Yes

VALUES, International Units

4.5 g/10 min
0.920 g/cm³
Yes

CAST FILM PROPERTIES

Evaluated Film Thickness
Dart Impact Strength
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

TEST METHOD

ASTM D1709A

VALUES, English Units

1.0 mils
145 g/F50

VALUES, International Units

25.4 µm
145 g/F50

Elmendorf Tear Strength

ASTM D1922

MD 180 g
TD 460 g

180 g
460 g

Tensile Strength at Yield

20.0 in/min (508 mm/min)

ASTM D882

MD 1,218 psi
TD 1,102 psi

8.4 MPa
7.6 MPa

Tensile Strength at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 9,860 psi
TD 6,525 psi

68.0 MPa
45.0 MPa

Tensile Elongation at Break

20.0 in/min (508 mm/min)

ASTM D882

MD 500 %
TD 710 %

500 %
710 %

Haze

ASTM D1003

2.3 %

2.3 %

PROCESSING CONDITIONS OF EVALUATED FILM

Melt Temperature

VALUES, English Units

455 °F

VALUES, International Units

235 °C

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.

