

TECHNICAL DATA SHEET

TRICOLENE LLBI20925

Linear Low Density Polyethylene

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 LLDPE is a copolymer of ethylene and 1-butene produced with Ziegler-Natta catalysts in a gas phase polymerization process. Product in Pellet Form.

PROCESSING METHODS

Injection Molding
Compounds' Extrusion

CHARACTERISTICS

Good Processability
Outstanding Toughness at Low Temperatures

APPLICATIONS

Caps and Closures
Masterbatch Base Resin

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C MFR₂
Density 23 °C
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

20.0 g/10 min
0.925 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

20.0 g/10 min
0.925 g/cm³
Yes

MECHANICAL PROPERTIES

Tensile Strength at Yield
2.0 in/min (50.8 mm/min), Type IV compression molded plaque
Tensile Elongation at Break
2.0 in/min (50.8 mm/min), Type IV compression molded plaque
Flexural Modulus
Secant at 1 % of Elongation - 0.051 in/min (1.3 mm/min)
Izod Notched Impact Strength
1/8 in (3.2 mm), 23 °C

TEST METHOD

ASTM D638
ASTM D638
ASTM D790B
ASTM D256

VALUES, ENGLISH UNITS

1,900 psi
360 %
69,000 psi
10.0 ft-lbf/in

VALUES, INTERNATIONAL UNITS

13 MPa
360 %
476 MPa
534 J/m

OTHER PROPERTIES

Vicat Softening Temperature - VST
10 N (1 kg), 50 °C/h
Environmental Stress Crack Resistance - ESCR
Condition B: 10 % Igepal a 50 °C, F50

TEST METHOD

ASTM D1525
ASTM D1693

VALUES, ENGLISH UNITS

189 °F
110.0 h

VALUES, INTERNATIONAL UNITS

87 °C
110.0 h

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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