

TECHNICAL DATA SHEET

TRICOLENE LLBI50926

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. Product in Pellet Form.

PROCESSING METHODS

Injection Molding
Compounds' Extrusion

CHARACTERISTICS

Good Processability
Outstanding Toughness at Low Temperatures
Excellent Tear Resistance at Low Temperatures

APPLICATIONS

Caps and Closures
Masterbatch Base Resin

RESIN PROPERTIES

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

ASTM D1238
ASTM D1505

50.0 g/10 min
0.926 g/cm³
Yes

50.0 g/10 min
0.926 g/cm³
Yes

MECHANICAL PROPERTIES

Tensile Strenght 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)

ASTM D638
ASTM D638
ASTM D790B

1,700 psi
80 %
68,000 psi

11.7 MPa
80 %
469 MPa

OTHER PROPERTIES

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

ASTM D1525
ASTM D1693

185 °F
30.0 h

85 °C
30.0 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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