

TECHNICAL DATA SHEET

TRICOLENE LLBM50926 Powder

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 Powder Form.

PROCESSING METHODS

Compounds' Extrusion

CHARACTERISTICS

Good Processability
Ease of Blending

APPLICATIONS

Masterbatch Base Resin

RESIN PROPERTIES

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

TEST METHOD

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

50.0 g/10 min
0.926 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

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 Strenght at Break
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
Shore Hardness
Type D Durometer

TEST METHOD

ASTM D638
ASTM D638
ASTM D638
ASTM D790A
ASTM D256
ASTM D2240

VALUES, ENGLISH UNITS

17 psi
10 psi
50 %
66,000 psi
8.2 ft-lbf/in
49.0

VALUES, INTERNATIONAL UNITS

0.12 MPa
0.07 MPa
50 %
455 MPa
438 J/m
49.0

OTHER PROPERTIES

Vicat Softennig Temperature - VST
10 N (1 kg), 50 °C/h

TEST METHOD

ASTM D1525

VALUES, ENGLISH UNITS

180 °F

VALUES, INTERNATIONAL UNITS

82 °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.

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