

TECHNICAL DATA SHEET

TRICOLENE LLBM20925 Powder

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 Powder Form.

PROCESSING METHODS

Compounds' Extrusion

CHARACTERISTICS

Good Processability
Ease of Blending with Additives

APPLICATIONS

Masterbatch Base Resin

RESIN PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Melt Flow Rate 2.16 kgf/190 °C MFR₂

ASTM D1238

20.0 g/10 min

20.0 g/10 min

Density 23 °C

ASTM D1505

0.925 g/cm³

0.925 g/cm³

Antioxidant Package

Yes

Yes

MECHANICAL PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Tensile Strength at Yield

2.0 in/min (50.8 mm/min), Type IV compression molded plaque

ASTM D638

2,200 psi

15 MPa

Tensile Strength at Break

2.0 in/min (50.8 mm/min), Type IV compression molded plaque

ASTM D638

1,300 psi

9 MPa

Tensile Elongation at Break

2.0 in/min (50.8 mm/min), Type IV compression molded plaque

ASTM D638

60 %

60 %

Flexural Modulus

Secant at 1 % of Elongation - 0.051 in/min (1.3 mm/min)

ASTM D790A

60,000 psi

414 MPa

Izod Notched Impact Strength

1/8 in (3.2 mm), 23 °C

ASTM D256

10.0 ft-lbf/in

534 J/m

Shore Hardness

Type D Durometer

ASTM D2240

47.0

47.0

OTHER PROPERTIES

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Vicat Softening Temperature - VST

10 N (1 kg), 50 °C/h

ASTM D1525

189 °F

87 °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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RIGID

