

TECHNICAL DATA SHEET

TRICOLENE LDI33921

Low Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of LDPE is a homopolymer of ethylene

PROCESSING METHODS

Injection Molding
Compounding

CHARACTERISTICS

Good Processability

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

33.0 g/10 min
0.921 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

33.0 g/10 min
0.921 g/cm³
Yes

MECHANICAL PROPERTIES *

Tensile Strength at Yield
2,0 in/min (50,8 mm/min), Type IV compression molded plaque
Tensile Strength at Break
2,0 in/min (50,8 mm/min), Type IV compression molded plaque
Tensile Elongation 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)
Shore Hardness
Type D Durometer

TEST METHOD

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

VALUES, ENGLISH UNITS

1,900 psi
1,400 psi
50 %
90 %
35,000 psi
47.0

VALUES, INTERNATIONAL UNITS

13 MPa
10 MPa
50 %
90 %
--- MPa

OTHER PROPERTIES *

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

TEST METHOD

ASTM D1525

VALUES, ENGLISH UNITS

194.0 °F

VALUES, INTERNATIONAL UNITS

90.0 °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.

