

TECHNICAL DATA SHEET

TRICOLENE MDF2942

Medium Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of MDPE is a copolymer of ethylene and 1-hexene

PROCESSING METHODS

Cast Film (Co)Extrusion
Blown Film (Co)Extrusion

CHARACTERISTICS

Stiffness
Good Mechanical Properties

APPLICATIONS

Diaper Backsheet

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

2.0 g/10 min

0.942 g/cm³

Yes

VALUES, INTERNATIONAL UNITS

2.0 g/10 min

0.942 g/cm³

Yes

FILM PROPERTIES *

Evaluated Film Thickness

Dart Impact Strength

38.0 mm (1.5 in), 0.66 m (26.0 in), F50

Elmendorf Tear Strength

Tensile Strength at Yield

20.0 in/min (508 mm/min)

Tensile Strength at Break

20.0 in/min (508 mm/min)

Tensile Elongation at Break

20.0 in/min (508 mm/min)

Tensile Secant Modulus of Elasticity

1 % Elongation, 0.051 in/min (1.3 mm/min)

Haze

Specular Gloss 45 °

TEST METHOD

ASTM D1709A

ASTM D1922

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D1003

ASTM D2457

VALUES, ENGLISH UNITS

0.8 mils

50 g

MD 20 g

TD 360 g

MD 2,200 psi

TD 2,300 psi

MD 10,000 psi

TD 5,700 psi

MD 520 %

TD 880 %

MD 55,000 psi

TD 62,000 psi

2.9 %

87.0

VALUES, INTERNATIONAL UNITS

20.3 µm

50 g

20 g

360 g

15 MPa

16 MPa

69 MPa

39 MPa

520 %

880 %

379 MPa

428 MPa

2.9 %

87.0

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Width

Melt Temperature

Chill Roll Temperature

Take-off Speed

TEST METHOD

VALUES, ENGLISH UNITS

3.5 in

542 ° F

80 ° F

750.0 ft/min

VALUES, INTERNATIONAL UNITS

89 mm

283 ° C

27 ° C

228.7 m/min

* 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.

