

TECHNICAL DATA SHEET

TRICOLENE HDF06950

High Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of HDPE is a copolymer of ethylene and 1-hexene with Broad Bimodal MWD

PROCESSING METHODS

Blown Film (Co)Extrusion

CHARACTERISTICS

Good Mechanical Properties
Good Processability

APPLICATIONS

T-Shirt Shopping Bags
Industrial Liners

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C

MFR₂

ASTM D1238

0.06 g/10 min

0.06 g/10 min

Melt Flow Rate 21.60 kgf/190 °C

HLMFR

ASTM D1240

9.50 g/10 min

9.50 g/10 min

Density 23 °C

ASTM D1505

0.950 g/cm³

0.950 g/cm³

Antioxidant Package

Yes

Yes

FILM PROPERTIES *

Evaluated Film Thickness

0.5 mils

12.7 mm

Dart Impact Strenght

ASTM D1709A

260 g

260 g

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

Elmendorf Tear Strenght

ASTM D1922

MD

15 g

15 g

TD

450 g

450 g

Tensile Strenght at Break

ASTM D882

MD

13,000 psi

90 MPa

TD

6,000 psi

41 MPa

20.0 in/min (508 mm/min)

Tensile Elongation at Break

ASTM D882

MD

260 %

260 %

TD

570 %

570 %

20.0 in/min (508 mm/min)

Tensil Secant Modulus of Elasticity

ASTM D882

MD

120,000 psi

828 MPa

TD

140,000 psi

966 MPa

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

PROCESSING CONDITIONS OF THE EVALUATED FILM

TEST METHOD

VALUES, ENGLISH UNITS

VALUES, INTERNATIONAL UNITS

Die Diameter

6.0 in

152 mm

Die Gap

40 mils

1.0 mm

Blow-up Ratio, BUR

4.0 ---

4.0 ---

Output

225.0 Lb/h

102.1 kg/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.

