

TECHNICAL DATA SHEET

TRICOLENE HDF05952

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

APPLICATIONS

T-Shirt Shopping Bags
Industrial Liners

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C MFR₂
Melt Flow Rate 21.60 kgf/190 °C HLMFR
Density 23 °C
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1240
ASTM D1505

VALUES, ENGLISH UNITS

0.06 g/10 min
9.00 g/10 min
0.952 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

0.06 g/10 min
9.00 g/10 min
0.952 g/cm³
Yes

FILM PROPERTIES *

Evaluated Film Thickness
Dart Impact Strenght
38.0 mm (1.5 in), 0.66 m (26.0 in), F50

TEST METHOD

ASTM D1709A

VALUES, ENGLISH UNITS

0.8 mils
350 g

VALUES, INTERNATIONAL UNITS

20.3 µm
350 g

Elmendorf Tear Strenght

Tensile Strenght at Yield
20.0 in/min (508 mm/min)

Tensile Strenght at Break
20.0 in/min (508 mm/min)

Tensile Elongation at Break
20.0 in/min (508 mm/min)

Tensil Secant Modulus of Elasticity
1 % Elongation, 0.051 in/min (1.3 mm/min)

TEST METHOD

ASTM D1922

ASTM D882

ASTM D882

ASTM D882

ASTM D882

ASTM D882

MD 37 g
TD 83 g

MD 4,500 psi
TD 3,900 psi

MD 11,000 psi
TD 7,000 psi

MD 250 %
TD 350 %

MD 112,000 psi
TD 139,000 psi

MD 772 MPa
TD 959 MPa

PROCESSING CONDITIONS OF THE EVALUATED FILM

Die Diameter
Blow-up Ratio, BUR

2.0 in
4.0 ---

51 mm
4.0 ---

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.

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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.

