

TRICOLENE HDI6962

High Density Polyethylene

777 Post Oak Blvd, Suite 550,
Houston TX, USA - 77056
+1-713-963-0066
www.triconenergy.com



ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of HDPE is a homopolymer of ethylene with Narrow Unimodal MWD

PROCESSING METHODS

Injection Molding

CHARACTERISTICS

Excellent Stiffness
Good Impact Strength
Moderate Flow

APPLICATIONS

Crates
Tote Boxes
Structural Foam

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

6.5 g/10 min

0.962 g/cm³

Yes

VALUES, INTERNATIONAL UNITS

6.5 g/10 min

0.962 g/cm³

Yes

MECHANICAL PROPERTIES

Tensile Strenght at Yield

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

Initial Tangent - 0,051 in/min (1,3 mm/min)

Secant at 1 % of Elongation - 0,051 in/min (1,3 mm/min)

Izod Notched Impact Strength

1/8 in (3,2 mm), 23 °C

Shore Hardness

Type D Durometer

TEST METHOD

ASTM D638

ASTM D638

ASTM D638

ASTM D790A

ASTM D256

ASTM D2240

VALUES, ENGLISH UNITS

4,700 psi

8 %

900 %

250,000 psi

230,000 psi

0.6 ft-lbf/in

66

VALUES, INTERNATIONAL UNITS

32.4 MPa

8 %

900 %

1,724 MPa

1,586 MPa

32.0 J/m

66

OTHER PROPERTIES

Vicat Softennig Temperature - VST

10 N (1 kg), 50 °C/h

Heat Deflection Temperature - HDT

66 psi (0,455 MPa), Method A

Environmental Stress Crack Resistance - ESCR

Condition B: 100 % Igepal at 50 °C, F50

TEST METHOD

ASTM D1525

ASTM D648

ASTM D1693

VALUES, ENGLISH UNITS

261 °F

190 °F

15 h

VALUES, INTERNATIONAL UNITS

127 °C

88 °C

15 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.