

TECHNICAL DATA SHEET

TRICOLENE HDB03945

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 copolymer of ethylene and 1-butene

PROCESSING METHODS

(Co)Extrusion Blow Molding
Sheet (Co)Extrusion

CHARACTERISTICS

Good Stiffness
Excellent ESCR

APPLICATIONS

Household and Industrial Chemical Containers
Pharmaceutical Containers
Agricultural Containers

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

0.35 g/10 min
0.945 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

0.35 g/10 min
0.945 g/cm³
Yes

MECHANICAL PROPERTIES *

Tensile Strength at Yield
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)
Tensile Impact Strength
Type S bar, 23 °C

TEST METHOD

ASTM D638
ASTM D790A
ASTM D1822

VALUES, ENGLISH UNITS

3,500 psi
150,000 psi
110 ft-lbf/in²

VALUES, INTERNATIONAL UNITS

24 MPa
1,034 MPa
231 kJ/m²

OTHER PROPERTIES *

Vicat Softening Temperature - VST
10 N (1 kg), 50 °C/h
Environmental Stress Crack Resistance - ESCR
Condition B: 100 % Igepal at 50 °C, F50

TEST METHOD

ASTM D1525
ASTM D1693

VALUES, ENGLISH UNITS

250 °F
1,000 h

VALUES, INTERNATIONAL UNITS

121 °C
1,000 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.

