

TECHNICAL DATA SHEET

TRICOLENE HDB03963

High Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of HDPE is an medium molecular weigth homopolymer of ethylene

PROCESSING METHODS

(Co)Extrusion Blow Molding
Sheet (Co)Extrusion

CHARACTERISTICS

Excellent Stiffness
High WVTR

APPLICATIONS

Bottles for Milk, Water and Juices
Thermoformed Parts

RESIN PROPERTIES

Melt Flow Rate 2.16 kg/190 °C MFR₂
Density 23 °C
Antioxidant Package

ASTM D1238
ASTM D1505

VALUES, ENGLISH UNITS

0.25 g/10 min
0.963 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

0.25 g/10 min
0.963 g/cm³
Yes

MECHANICAL PROPERTIES

Tensile Strenght 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
23 °C, type S bar

ASTM D638
ASTM D790A
ASTM D1822

4,500 psi
230,000 psi
70 ft-lbf/in²

31 MPa
1,586 MPa
147 kJ/m²

OTHER PROPERTIES

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

ASTM D1525
ASTM D1693

261 °F
20 h

127 °C
20 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.

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