

TRICOLENE HDI20952

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 Narrow Unimodal MWD

PROCESSING METHODS

Injection Molding

CHARACTERISTICS

Good Toughness
Good Processability

APPLICATIONS

Toys
Caps and Closures for non-carbonated beverages
Housewares

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

20.0 g/10 min
0.952 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

20.0 g/10 min
0.952 g/cm³
Yes

MECHANICAL PROPERTIES *

Tensile Strenght at Yield

2,0 in/min (50,8 mm/min), Type IV compression molded plaque

ASTM D638

3,900 psi

27 MPa

Tensile Elongation at Break

2,0 in/min (50,8 mm/min), Type IV compression molded plaque

ASTM D638

300 %

300 %

Flexural Modulus

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

ASTM D790A

175,000 psi

1,207 MPa

Shore Hardness

Type D Durometer

ASTM D2240

63.0

63.0

OTHER PROPERTIES *

Vicat Softennig Temperature - VST

10 N (1 kg), 50 °C/h

ASTM D1525

252 °F

122 °C

Environmental Stress Crack Resistance - ESCR

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

ASTM D1693

10 h

10 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.