

TECHNICAL DATA SHEET

TRICOLENE HDI17951

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-butene with Narrow Unimodal MWD

PROCESSING METHODS

Injection Molding

CHARACTERISTICS

Good Toughness
Good Processability
Excellent Warpage

APPLICATIONS

Caps and Closures for non-carbonated beverages
Housewares
Toys

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

17.0 g/10 min
0.951 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

17.0 g/10 min
0.951 g/cm³
Yes

MECHANICAL PROPERTIES *

Tensile Strength 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
Secant at 1 % of Elongation - 0.051 in/min (1.3 mm/min)
Shore Hardness
Type D Durometer

TEST METHOD

ASTM D638
ASTM D638
ASTM D790A
ASTM D2240

VALUES, ENGLISH UNITS

3,300 psi
530 %
154,000 psi
62.0

VALUES, INTERNATIONAL UNITS

23 MPa
530 %
1,062 MPa
62.0

OTHER PROPERTIES *

Vicat Softenig 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

248 °F
10 h

VALUES, INTERNATIONAL UNITS

120 °C
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.

