

TECHNICAL DATA SHEET

TRICOLENE HDI7961

High Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of HDPE is a homopolymer of ethylene with Narrow Unimodal MWD produced in a solution polymerization process

PROCESSING METHODS

Injection Molding

CHARACTERISTICS

High Stiffness
Good Toughness

APPLICATIONS

Beverage Crates
Tote Boxes

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

7.0 g/10 min
0.961 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

7.0 g/10 min
0.961 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)
Izod Notched Impact Strength
23 °C, 1/8 in (3.2 mm)
Shore Hardness
Type D Durometer

TEST METHOD

ASTM D638
ASTM D638
ASTM D790A
ASTM D256
ASTM D2240

VALUES, ENGLISH UNITS

4,200 psi
1,200 %
185,600 psi
1.20 ft-lbf/in
65.0

VALUES, INTERNATIONAL UNITS

29 MPa
1,200 %
1,280 MPa
64 J/m
65.0

OTHER PROPERTIES *

Vicat Softenng 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

264 °F
171 °F
10 h

VALUES, INTERNATIONAL UNITS

129 °C
77 °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.

