

TECHNICAL DATA SHEET

TRICOLENE HDC01954

High Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

This type of HDPE is an Ultra-High Molecular Weight Powder based on a copolymer of ethylene and 1-butene.

PROCESSING METHODS

Compression Molding

CHARACTERISTICS

Very High Impact Strength

APPLICATIONS

Shot Gun Shells

RESIN PROPERTIES

Melt Flow Rate 2.16 kgf/190 °C MFR₂
Melt Flow Rate 21.60 kgf/190 °C HLMFR
Density 23 °C
Apparent (Bulk) Density 23 °C
Antioxidant Package

TEST METHOD

ASTM D1238
ASTM D1238
ASTM D1505
ASTM D1845

VALUES, ENGLISH UNITS

< 0,10 g/10 min
1.70 g/10 min
0.954 g/cm³
0.948 g/cm³
None

VALUES, INTERNATIONAL UNITS

< 0,10 g/10 min
1.70 g/10 min
0.954 g/cm³
0.948 g/cm³
None

MECHANICAL PROPERTIES *

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

TEST METHOD

ASTM D638

VALUES, ENGLISH UNITS

4,100 psi

VALUES, INTERNATIONAL UNITS

28 MPa

OTHER PROPERTIES *

Brittleness Temperature

TEST METHOD

ASTM D746

VALUES, ENGLISH UNITS

-76 °F

VALUES, INTERNATIONAL UNITS

-60 °C

Vicat Softennig Temperature - VST

10 N (1 kg), 50 °C/h

TEST METHOD

ASTM D1525

VALUES, ENGLISH UNITS

268 °F

VALUES, INTERNATIONAL UNITS

131 °C

* 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.

