

TECHNICAL DATA SHEET

TRICOLENE HDI10964

High Density Polyethylene

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ADDING A WORLD OF VALUE

PRODUCT DESCRIPTION

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

PROCESSING METHODS

Injection Molding

CHARACTERISTICS

Superior Stiffness
Low Viscosity for Exceptional Processability
Low Warpage

APPLICATIONS

Crates
Tote Bins
Pallets

RESIN PROPERTIES

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

ASTM D1238
ASTM D1505

10.0 g/10 min
0.964 g/cm³
Yes

10.0 g/10 min
0.964 g/cm³
Yes

MECHANICAL PROPERTIES

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

ASTM D638
ASTM D638
ASTM D638
ASTM D790A
ASTM D2240

4,800 psi
2,900 psi
1,250 %
246,600 psi
68.0

33 MPa
20 MPa
1,250 %
1,701 MPa
68.0

OTHER PROPERTIES

Vicat Softennig Temperature - VST
10 N (1 kg), 50 °C/h

ASTM D1525

268 °F

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.

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