

TRICOLENE HDB5502

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

PROCESSING METHODS

(Co)Extrusion Blow Molding
Sheet (Co)Extrusion

CHARACTERISTICS

Good Stiffness
Good Processability

APPLICATIONS

Household and Industrial Chemical Containers
Pharmaceutical Containers
Food Packaging Containers

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

0.35 g/10 min
0.955 g/cm³
Yes

VALUES, INTERNATIONAL UNITS

0.35 g/10 min
0.955 g/cm³
Yes

MECHANICAL PROPERTIES *

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

TEST METHOD

ASTM D638
ASTM D638
ASTM D790A

VALUES, ENGLISH UNITS

4,000 psi
600 %
200,000 psi

VALUES, INTERNATIONAL UNITS

28 MPa
600 %
1,379 MPa

OTHER PROPERTIES *

Environmental Stress Crack Resistance - ESCR
Condition B: 100 % Igepal at 50 °C, F50

TEST METHOD

ASTM D1693

VALUES, ENGLISH UNITS

24 h

VALUES, INTERNATIONAL UNITS

24 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.

RIGID