

# TRICOLENE HDI6953

## 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 with Narrow Unimodal MWD

### PROCESSING METHODS

Injection Molding

### CHARACTERISTICS

Excellent Impact Strength  
Good ESCR  
Good Stiffness

### APPLICATIONS

Industrial Pails  
Pail Lids

### RESIN PROPERTIES

**Melt Flow Rate** 2.16 kgf/190 °C MFR<sub>2</sub>  
**Density** 23 °C  
**Antioxidant Package**

### TEST METHOD

ASTM D1238  
ASTM D1505  
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### VALUES, ENGLISH UNITS

6.6 g/10 min  
0.953 g/cm<sup>3</sup>  
Yes

### VALUES, INTERNATIONAL UNITS

6.6 g/10 min  
0.953 g/cm<sup>3</sup>  
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

4,100 psi  
950 %  
185,000 psi  
62.0

### VALUES, INTERNATIONAL UNITS

28 MPa  
950 %  
1,276 MPa  
62.0

### OTHER PROPERTIES \*

**Vicat Softening 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

257 °F  
20 h

### VALUES, INTERNATIONAL UNITS

125 °C  
20 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.