

TOTAL PETROCHEMICALS
TOTAL PETROCHEMICALS USA, INC.



HDPE 5502

Resin Properties⁽¹⁾

Melt Flow Index, g/10 min

190°C/2.16 kg

190°C/21.6 kg (HLMI)

Density, g/cm³

Melting Point, °F

Typical Value

0.35

30.0

0.955

264

ASTM Method

D 1238

D 792

D 3417

Mechanical Properties⁽¹⁾⁽²⁾

Tensile Strength at Yield, psi

4,000

D 638, Type IV
specimen, 2 in/min

Elongation at Break, %

600

D-638, Type IV
specimen, 2 in/min

Flexural Modulus, psi

200,000

D 790

ESCR⁽³⁾, hrs

100% Igepal

10% Igepal

50

35

D 1693, Cond B

Processing

Recommendation

Blow Molding Stock Temperature

360 – 400 °F

Extrusion Melt Temperature

380–420 °F

Polyethylene:

High Density Blow Molding

Resin⁽⁵⁾

Characteristics

- Good stress cracking resistance
- Excellent stiffness
- Drug Master File listed
- USP Class VI approved
- FDA compliant⁽⁴⁾
- UL 94HB/746 certified

Applications

- Bleach and Detergents
- Industrial chemicals
- Industrial parts
- Suitable for food packaging

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) The data listed were determined on compression molded specimens and may, therefore, vary from specimens taken from molded articles.
(3) Environmental Stress Crack Resistance (ESCR)
(4) Complies with FDA 21 CFR § 177.1520, Para. (c) 2.1 and 2.2
(5) Anti-stat version available

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