

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow Index, g/10 min 190°C/21.6 kg (HLMI)	5.5	D 1238
Density, g/cm ³	0.954	D 792
Melting Point, °F	263	D 3417

Mechanical Properties⁽¹⁾⁽²⁾

Tensile Strength at Yield, psi	4,100	D 638, Type IV specimen, 2 in/min
Tensile Strength at Break, psi	5,700	
Elongation @ Break, %	> 600	
Flexural Modulus @ 0.4% Strain, psi	190,000	D 790
Notched Izod Impact Strength, ft-lb/in	12.5	D 256, A 1/8 in thick specimen
ESCR ⁽³⁾ , F ₅₀ , hrs	> 200	D 1693, cond. B 10% Igepal
ESCR ⁽³⁾ , F ₅₀ , hrs	> 1,000	D 1693, cond. B 100% Igepal

Processing

Recommendation

Blow Molding Stock Temperature	380 – 450 °F
Extrusion Melt Temperature	400 – 480 °F

Polyethylene:

High Molecular Weight
High Density Large Part
Blow Molding Resin

Characteristics

- Excellent melt strength
- Excellent impact and creep resistance
- Exceptional stress cracking resistance
- Excellent chemical resistance
- Good rigidity
- ASTM D 1248 – Type III, Class A, Category 5
- ASTM D 4976-89-PE235
- FDA Compliant⁽⁴⁾

Applications

- 55-gallon shipping containers
- Open-top drums
- Industrial tanks
- Agricultural chemical tanks

(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 21 CFR § 177.1520, Para. (c) 2.1 and 2.2

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