

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow Index, g/10 min 190°C/2.16 kg	1.2	D 1238
190°C/21.6 kg (HLMI)	33.0	
Density, g/cm ³	0.961	D 792
Melting Point, °F	265	D 3417
<u>Mechanical Properties</u> ⁽¹⁾⁽²⁾		
60° Gloss	> 25	TOTAL Method
Tensile Strength at Yield, psi	4300	D 638, Type IV specimen, 2 in/min
Elongation at Break, %	>500	D-638, Type IV specimen, 2 in/min
Flexural Modulus, psi	193,000	D 790
Izod Impact @ 23°C, ft-lb/in	5.5	D256
ESCR ⁽³⁾ , hrs	10	D 1693, Cond B

Processing Recommendations

High gloss and good clarity are obtained with BM 961 using standard extrusion blow molding equipment. Good results are possible over a wide range of processing parameters. Extrusion melt temperatures between 360 – 390°F provide optimum results. High gloss is possible with mold surfaces textured for proper venting of standard HDPE. Optimum gloss is obtained with mold surfaces that are as smooth as possible while still providing adequate venting.

- (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, 10% Igepal
- (4) Complies with FDA 21 CFR § 177.1520, Para. (c) 2.1 and 2.2

Polyethylene:

High Density High Gloss Blow Molding Resin

Characteristics

- High gloss
- High stiffness
- Good abrasion resistance
- FDA compliant⁽⁴⁾

Applications

- Coextruded Glossy Bottles
- Blending agent for other polyethylenes to increase stiffness or to increase gloss

HDPE BM 961 09/2005



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