

Resin Properties⁽¹⁾	Typical Value	ASTM Method
Melt Flow Index, g/10 min 190 ⁰ C/2.16 kg	0.9	D1238
190 ⁰ C/21.6 kg (HLMI)	25	
Density, g/cm ³	0.935	D792
Melting Point, °F	255	D3417

Mechanical Properties⁽¹⁾⁽²⁾

60° Gloss	40 to 80	TOTAL Method
Tensile Strength at Yield, psi	4000	D 638, Type IV specimen, 2 in/min
Elongation at Break, %	> 600	D-638, Type IV specimen, 2 in/min
Flexural Modulus, psi	107,000	D 790
Izod Impact @ 23°C, ft-lb/in	10.5	D256
Cold Temperature Impact Energy (-20°C), ft-lbs	23.0	ASTM D3763
ESCR ⁽³⁾ , F ₅₀ , hrs		D 1693, Cond B
100% Igepal	>1000	
10% Igepal	>1000	

Processing

Recommendations

High gloss and good clarity are obtained with BM359 SG using standard extrusion or injection 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.

Polyethylene:

Metallocene Medium Density High Gloss Blow Molding Resin

Characteristics

- Outstanding gloss
- Good flexibility
- Excellent impact strength
- Good ESCR
- USP Class VI compliant
- FDA Compliant⁴

Applications

- Coextruded Glossy Bottles
- Monolayer Squeezable Bottles
- Injection Blow Molded Containers

mMDPE BM359 SG 09/2005

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

