

# ExxonMobil™ HDPE HD 9856B

## High Density Polyethylene Resin

### Product Description

HD-9856B is a HDPE blow molding resin designed for high performance packaging applications. Containers made from HD9856B exhibit a unique combination of stiffness and environmental stress cracking resistance. These properties, coupled with excellent processability on both continuous and intermittent equipment, afford significant lightweighting and/or fast-cycling potential in many applications. HD-9856B does not contain any antistat.

### General

Additive	<ul style="list-style-type: none"> <li>Thermal Stabilizer: Yes</li> <li>Antistatic: No</li> </ul>
Applications	<ul style="list-style-type: none"> <li>Caps and Closures</li> <li>Compression Moldings</li> <li>Food Packaging</li> <li>Household and Industrial chemical containers</li> <li>Pharmaceutical Packaging</li> <li>Thermoformed Parts</li> <li>Thin Gauge Sheet</li> </ul>

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.957 g/cm <sup>3</sup>	0.957 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	0.46 g/10 min	0.46 g/10 min	ASTM D1238

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -105 °F	< -76 °C	ASTM D746

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	4400 psi	30 MPa	ASTM D638
Elongation at Break	1100 %	1100 %	ASTM D638
Flexural Modulus	210000 psi	1400 MPa	ASTM D790A
Environmental Stress-Crack Resistance 100% Igepal	> 1000 hr	> 1000 hr	ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength	120 ft-lb/in <sup>2</sup>	260 kJ/m <sup>2</sup>	ASTM D1822

