

# 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

Availability <sup>1</sup>	▪ Latin America	▪ North America
Additive	▪ Thermal Stabilizer: Yes	▪ Antistatic: No
Applications	▪ Caps and Closures ▪ Compression Moldings ▪ Food Packaging	▪ Household and Industrial chemical containers ▪ Pharmaceutical Packaging ▪ Thermoformed Parts ▪ Thin Gauge Sheet
Revision Date	▪ 03/01/2010	

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

### Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

### Processing Statement

1. Values are typical and should not be interpreted as specifications. Values may change with future development. 2. All molded properties were measured on compression molded plaques. 3. Bulk Density: 585 Kg/m<sup>3</sup> (36.5 lbs/ft<sup>3</sup>) 4. Flexural modulus tested using Procedure A (1"x3"x0.125"), tangent calculation. 5. ESCR tested using Condition B, 100 % Igepal. 6. HD9856B has NSF recognition. Contact your ExxonMobil Chemical Representative for details.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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