ExxonMobil™ HDPE
HD 9856B

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 [1]	• Latin America	• North America	• South America
Additive	• Antistatic: No	• Heat Stabilizer: Yes	
Forms	• Pellets		
Processing Method	• Blow Molding		
Revision Date	• 6/2006		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Index (190°C/2.16 kg)	0.46 g/10 min	0.46 g/10 min	ASTM D1238
Density	0.957 g/cm³	0.957 g/cm³	ASTM D1505

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

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength (Yield)	4350 psi	30.0 MPa	ASTM D638
Tensile Strength (Break)	3480 psi	24.0 MPa	ASTM D638
Tensile Elongation (Yield)	7.5 %	7.5 %	ASTM D638
Tensile Elongation (Break)	1100 %	1100 %	ASTM D638
Flexural Modulus (Procedure A)	210000 psi	1450 MPa	ASTM D790
Environmental Stress-Cracking Resistance			ASTM D1693
100% Igepal	> 1000 hr	> 1000 hr	

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength	124 ft·lb/in²	260 kJ/m²	ASTM D1822

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

Additional Properties

Applications:
- Household and industrial chemical containers
- Food packaging
- Pharmaceutical packaging

Processing Statement

Bluk Density: 585(36.5) Kg/m3 (lbs/ft3)
Values are typical and should not be interpreted as specifications. Values may change with future development. The value listed as Density, ASTM D1505, was tested in accordance with ASTM D4883. ESCR, ASTM D1693: >1000 hr

Foodlaw & Medical Use Statement

All high density polyethylene polymer grades can - in principle - be used in food contact applications in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.
ExxonMobil Polyethylene is not intended for use in medical applications.

Notes

[1] Product may not be available in one or more countries in the identified Availability regions. Contact your Sales Representative for complete Country Availability.