

ExxonMobil® HD 9856B

Product Description: HD 9856B is a HDPE blow molding resin designed for high performance packaging applications. Containers made from HD 9856B 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 antistatic.

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in ³	ASTM D4883
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1693
Melt Flow	0.46 g/10 min @Load 2.16 kg, Temperature 190 °C	0.46 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.1 MPa	3500 psi	ASTM D638
Tensile Strength, Yield	30.3 MPa	4400 psi	ASTM D638
Elongation at Break	1100 %	1100 %	ASTM D638
Flexural Modulus, 1% Secant	1450 MPa	210000 psi	ASTM D790
Tensile Impact Strength	252 kJ/m ²	120 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.1 °C	<= -105 °F	ASTM D746

Descriptive Properties			
Features	Thermal Stabilizer		