

SABIC[®] B5822

HDPE B5822 is a High Density Polyethylene specially developed for small blow molded bottles. The material offers easy flow, higher stiffness, very good ESCR and sufficient impact strength.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	150 hour	150 hour	ASTM D1693
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	1.2 g/10 min @Load 5.00 kg, Temperature 190 °C	1.2 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
	22 g/10 min @Load 21.6 kg, Temperature 190 °C	22 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Yield	28.0 MPa	4060 psi	ISO 527-1/-2
Elongation at Yield	7.5 %	7.5 %	ISO 527-1/-2
Tensile Modulus	1.35 GPa	196 ksi	ASTM D638
Charpy Impact, Notched	0.650 J/cm ² @Temperature -30.0 °C	3.09 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Tensile Impact Strength	75.0 kJ/m ² @Temperature -30.0 °C	35.7 ft-lb/in ² @Temperature -22.0 °F	ISO 8256
Descriptive Properties			
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	8 hrs		ISO 16770; Based on compression molded sheet.