

SABIC[®] CC862

CC862 is a High Density Polyethylene grade specially developed for still water bottle caps that meet organoleptic properties requirements. The material offers an ideal combination of rigidity, impact strength and low warpage properties.

Physical Properties	Metric	English	Comments
Density	0.963 g/cc	0.0348 lb/in ³	ASTM D1505
ESCR 100% Igepal®	3.0 hour	3.0 hour	F50; Based on compression molded sheet.; ASTM D1693B
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Based on Injection molded specimens.; ASTM D2240
Tensile Strength at Break	18.0 MPa	2610 psi	Based on Injection molded specimens.; ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	Based on Injection molded specimens.; ASTM D638
Elongation at Break	>= 800 %	>= 800 %	Based on Injection molded specimens.; ASTM D638
Flexural Strength	25.0 MPa	3630 psi	Based on Injection molded specimens.; ASTM D790
Flexural Modulus	1.00 GPa	145 ksi	Based on Injection molded specimens.; ISO 178/1A
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	Based on Injection molded specimens.; ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	Based on Injection molded specimens.; ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	Based on Injection molded specimens.; ASTM D746