

# SABIC® HDPE CC862

## HIGH DENSITY POLYETHYLENE

### DESCRIPTION

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.

### TYPICAL APPLICATIONS

Caps & Closures for the packaging of still mineral water.

Caps & Closures for beverage food and industrial packaging.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate @ 190°C & 2.16 kg load <sup>(1)</sup>	8	g/10 min	ASTM D1238
Density at 23°C <sup>(1)</sup>	963	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength at Yield <sup>(2)</sup>	26	MPa	ASTM D638
Tensile Strength at Break <sup>(2)</sup>	18	MPa	ASTM D638
Tensile Elongation at Break <sup>(2)</sup>	>800	%	ASTM D638
Flexural Strength <sup>(2)</sup>	25	MPa	ASTM D790
Flexural Modulus <sup>(2)</sup>	1000	MPa	ISO 178/1A
Izod Impact Strength <sup>(2)</sup>	75	J/m	ASTM D256
Hardness (Shore D) <sup>(2)</sup>	62	-	ASTM D2240
ESCR (100% Igepal), F50 <sup>(3)</sup>	3	hrs	ASTM D1693B
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point <sup>(2)</sup>	125	°C	ASTM D1525
Brittleness Temperature <sup>(2)</sup>	<75	°C	ASTM D746

(1) Typical values: not to be construed as specification limits.

(2) Based on Injection molded specimens.

(3) Based on compression molded sheet

### CHARACTERISTICS

Good organoleptic properties.

Complies with food contacts regulations.

Slip agent free grade.

### PROCESSING CONDITIONS

Typical processing conditions for CC862 are

Melt temperature: 190 - 250°C

Mold temperature: 15 - 60°C