

# SABIC<sup>®</sup> 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

Revision 20181012

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



## FOOD REGULATION

CC862 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

DISCLAIMER: This product is not intended for and must not be used in any pharmaceutical/medical applications

## STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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