

POLYMERS

# SABIC<sup>®</sup> HDPE Injection & Compression Molding CC254

## PRODUCT DESCRIPTION

SABIC HDPE CC254 is high density polyethylene produced by ACP technology specially developed for Caps & Closures of carbonated soft drinks (CSD) and sparkling water. It is easy processable on injection molding and compression molding machines. The grade offers good balance of stiffness, environmental stress cracking resistance and meets organoleptic.

## TYPICAL APPLICATIONS

- Caps & Closures for carbonated soft drinks (CSD) and sparkling water.
- Collapsible tubes

## KEY FEATURES

- Approved for organoleptic properties.
- Complies with food contacts regulations.

## TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	g/10 min	2.1	ISO 1133
@ 190°C & 5 kg load	g/10 min	6.3	ISO 1133
Density @ 23°C	Kg/m <sup>3</sup>	953	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Modulus	MPa	1150	ISO 527-1-2
Tensile Strength @ Yield	MPa	30	ISO 527-1-2
Tensile Elongation @ Yield	%	10	ISO 527-1-2
ESCR	hr	>9	SABIC Method
Charpy notched impact strength (-30°C)	KJ/m <sup>2</sup>	5	ISO 179
Hardness (Shore D)	-	62	ISO 868
<b>THERMAL PROPERTIES</b>			
Vicat softening temperature B/50	°C	75	ISO 306

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

(2) Based on compression molded specimens.

Recommended processing temperatures: 190-230°C

## FOOD REGULATION

CC254 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.

## 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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