

# SABIC® HDPE CC254

HIGH DENSITY POLYETHYLENE - REGION  
GLOBAL

## DESCRIPTION

SABIC HDPE CC254 is state of the art resin produced by ACP technology. It is easy to process on injection molding and compression molding machines. The grade offers good balance of stiffness, toughness and environmental stress cracking resistance properties.

## TYPICAL APPLICATIONS

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

## TYPICAL PROPERTY VALUES

Revision 20170417

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b> <sup>(1)</sup>			
at 190°C and 2.16 kg <sup>(1)</sup>	2.1	g/10 min	ISO 1133
at 190°C and 5 kg <sup>(1)</sup>	6.3	g/10 min	ISO 1133
<b>Density at 23°C</b> <sup>(2)</sup>	953	kg/m <sup>3</sup>	ISO 1183
<b>Sensoric (Organoleptic Properties)</b>	Approved	-	SABIC method
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile Modulus</b> <sup>(2)</sup>	1150	MPa	ISO 527-1/-2
<b>Tensile Strength at Yield</b> <sup>(2)</sup>	30	MPa	ISO 527-1/-2
<b>Tensile Elongation at Yield</b> <sup>(2)</sup>	10	%	ISO 527-1/-2
<b>ESCR</b> <sup>(3)</sup>	> 9	hrs	SABIC method
<b>Charpy Notched Impact Strength (-30°C)</b> <sup>(2)</sup>	5	kJ/m <sup>2</sup>	ISO 179
<b>Hardness (Shore D)</b> <sup>(2)</sup>	62	-	ISO 868
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
B/50	75	°C	ISO 306

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

(2) Based on compression molded specimens.

(3) FNCT (Full Notch Creep Test), 6 MPa, 2% Arkopal, 50°C)



## PROCESSING CONDITIONS

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.

## CHARACTERISTICS

Approved for organoleptic properties.

Complies with food contacts regulations.

## DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

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