

# SABIC® HDPE CC254

HIGH DENSITY POLYETHYLENE

## 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR) <sup>(1)</sup></b>			
at 190°C and 2.16 kg <sup>(1)</sup>	2.1	g/10 min	ISO 1133
at 190°C and 5 kg	6.3	g/10 min	ISO 1133
<b>Density at 23°C</b>	953	kg/m <sup>3</sup>	ASTM D1505
<b>Sensoric (Organoleptic Properties)</b>	Approved	-	SABIC method
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile modulus</b>	1150	MPa	ASTM D638
<b>Tensile Strength at Yield</b>	30	MPa	ASTM D638
<b>Tensile Elongation at Yield</b>	10	%	ISO 527-1/-2
<b>ESCR FNCT</b>	10	h	ISO 16770
<b>Charpy Notched Impact Strength (-30°C)</b>	5	kJ/m <sup>2</sup>	ISO 179
<b>Hardness (Shore D) <sup>(2)</sup></b>	62	-	ASTM D2240
<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.

## 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.