

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

Revision 20220720

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

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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