

POLYMERS

SABIC[®] HDPE Injection Molding CC453

PRODUCT DESCRIPTION

SABIC HDPE CC453 is high density polyethylene specially developed for the injection and compression molding of Caps & Closures for the packaging of beverages. This grade offers an ideal combination of impact strength, ESCR and meets organoleptic properties requirements.

TYPICAL APPLICATIONS

Caps & Closures for the packaging of Juice, water, milk and liquid dairy products.

KEY FEATURES

- Approved for organoleptic properties.
- Complies with food contacts regulations.
- High impact strength.
- Easy processing by injection and compression molding machines.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	4	ASTM D 1238
Density @ 23°C	Kg/m ³	953	ASTM D 1505
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ Yield	MPa	23	ASTM D 638
Tensile Strength @ Break	MPa	21	ASTM D 638
Tensile Elongation @ Break	%	>800	ASTM D 638
Flexural Strength	MPa	21	ASTM D 790
Flexural Modulus	MPa	800	ASTM D 790
Izod Impact	J/m	150	ASTM D 256
Hardness (Shore D)	-	60	ASTM D 2240
ESCR (100% Igepal), F50*	Hrs	7	ASTM D 1693B
THERMAL PROPERTIES ⁽²⁾			
Vicat Softening Point	°C	125	ASTM D 1525
Brittleness Temperature	°C	< -75	ASTM D 746
OTHER PROPERTIES			
Sensoric (Organoleptic properties)	°C	Approved	SABIC Method

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

(2) Based on Injection molded specimens.

*Based on compression molded sheet