

SABIC® HDPE CC453

High Density Polyethylene

SABIC Americas, Inc.

Message:

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 meet organoleptic properties requirements.

Typical Applications

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

Key Features

Approved for organoleptics properties

Complies with food contacts regulations

High impact strength

Easy processing by injection and compression molding machines

General Information			
Features	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Caps		
	Closures		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	7.00	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Injection Molded)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Injection Molded	23.0	MPa	
Break, Injection Molded	21.0	MPa	
Tensile Elongation (Break, Injection Molded)	> 800	%	ASTM D638
Flexural Modulus (Injection Molded)	800	MPa	ASTM D790

Flexural Strength (Injection Molded)	21.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	150	J/m	ASTM D256
Additional Information	Nominal Value		Test Method
Sensoric - Organoleptic properties	Approved		Internal Method

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