# SABIC® HDPE CC453G

## High Density Polyethylene

### Saudi Basic Industries Corporation (SABIC)

#### Message:

SABIC® HDPE CC453G offers a good combination of stiffness, impact resistance, ESCR and organoleptic properties. The typical application of this grade is mainly injection moulding and compression moulding of caps for still water, slightly carbonated or pressurized drinks, juices or any other non-sparkling drinks.

The product not intended for and must not be used in any pharmaceutical/medical applications.

General Information					
Features	Good ESCR (Stress Crack Resist.)				
	Rigid, good				
	High density				
	Impact resistance, good				
	Good sensory characteristics				
Uses	Shield				
Processing Method	Compression molding				
	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Density	0.953	g/cm³	ISO 1183		
Melt Mass-Flow Rate (MFR)			ISO 1133		
190°C/2.16 kg	4.0	g/10 min	ISO 1133		
190°C/5.0 kg	11	g/10 min	ISO 1133		
Environmental Stress-Cracking Resistance					
(40°C, 1.00mm, 10% Igepal CO-630, compression molding)	60.0	hr	Internal method		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D,		Ont			
Compression Molded)	61		ISO 868		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (2.00 mm, Compression					
Molded)	1100	MPa	ISO 527-2/1BA/50		
Tensile Stress			ISO 527-2/1BA/50		
Yield, 2.00mm, molded	26.0	MPa	ISO 527-2/1BA/50		
Fracture, 2.00mm, molded	31.0	MPa	ISO 527-2/1BA/50		
Tensile Strain (Break, 2.00 mm,	202	24			
Compression Molded)	> 200	%	ISO 527-2/1BA/50		
Flexural Modulus (2.00 mm, Compression Molded)	1200	MPa	ISO 178		
Flexural Stress (2.00 mm, Compression			100 J=1		
Molded)	26.0	MPa	ISO 178		

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compress Molded)	ion 5.0	kJ/m²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MP Unannealed)	a, 81.0	°C	ISO 75-2/B
Vicat Softening Temperature	124	°C	ISO 306/A
Melting Temperature (DSC)	132	°C	ISO 11357-3
Enthalpy Change	203	J/g	ISO 11357-3

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#### Recommended distributors for this material

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