

# SABIC® HDPE CC253

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® HDPE CC253 offers a good combination of stiffness, impact resistance, ESCR and organoleptic properties. The typical applications of this grade are mainly injection moulding and compression moulding of caps for sparkling water and carbonated soft drinks.

SABIC® HDPE CC253 does not contain slip agent.

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

General Information			
Features	Good Impact Resistance Good Organoleptic Properties Good Stiffness High Density High ESCR (Stress Crack Resist.)		
Uses	Caps		
Processing Method	Compression Molding Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ISO 1133
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, 2.00 mm, Compression Molded	26.0	MPa	
Break, 2.00 mm, Compression Molded	30.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1150	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	26.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Compression Molded)	7.0	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature	124	°C	ISO 306/A

Melting Temperature (DSC)	131	°C	ISO 11357-3
Enthalpy Change	201	J/g	ISO 11357-3

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