

# SABIC® HDPE CC253SL

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE CC253SL 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 CC253SL does contain slip agent for an easier opening. It is stabilised against UV light because the slip agent is sensitive to light; exposure to sunlight should be avoided.

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

General Information	
Additive	Slip UV Stabilizer
Features	Good Impact Resistance Good Organoleptic Properties Good Stiffness Good UV Resistance High Density High ESCR (Stress Crack Resist.) Slip
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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#### Recommended distributors for this material

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