

SABIC® HDPE B5823

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5823 is developed for blow moulding consumer packaging up to 5 l, combining high stiffness and a good ESCR level. This grade is suitable for packaging the majority of detergents, cleaners, shampoos and cosmetics.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Features	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
Uses	Packaging		
	Piping system		
	Bottle		
Forms	Particle		
Processing Method	Blow molding		
	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.16	g/10 min	ISO 1133
190°C/21.6 kg	23	g/10 min	ISO 1133
190°C/5.0 kg	0.89	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (75°C, 1.00 mm, Rhodacal-DS10)	13.0	hr	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1150	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	28.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	22.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A

-30°C	6.0	kJ/m ²	ISO 180/1A
23°C	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	128	°C	ISO 306/A50
--	79.0	°C	ISO 306/B50
Melting Temperature (DSC)	133	°C	DIN 53765
Enthalpy Change	215	J/g	DIN 53765
NOTE			

1. 3 MPa

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