SABIC® HDPE B5823

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5823 is typically used for blow moulding of consumer packaging up to 5 l, combining high stiffness and a good ESCR level. This grade is typically used for packaging the majority of household and industrial chemicals, such as detergents, cleaners, shampoos and cosmetics, as well as food packaging.

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

General Information			
Features	High Density		
	High ESCR (Stress Crack Resist.)		
	High Stiffness		
Uses	Cosmetic Packaging		
	Food Packaging		
	Packaging		
	Piping		
	Sheet		
Processing Method	Blow Molding		
	Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.16	g/10 min	
190°C/21.6 kg	23	g/10 min	
190°C/5.0 kg	0.89	g/10 min	
Environmental Stress-Cracking Resistance			
(10% Igepal CO-630, Compression Molded, F50)	45.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore 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	1150	IVII Q	ISO 527-2/1BA/50
	28.0	MPa	13U 321-2/ 1DA/3U
Yield, 2.00 mm, Compression Molded	28.0	MPa	

Break, 2.00 mm, Compression Molded	22.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1400	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	29.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	6.0	kJ/m²	
23°C, Compression Molded	12	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	128	°C	ISO 306/A
Melting Temperature (DSC)	133	°C	ISO 11357-3
Enthalpy Change	215	J/g	ISO 11357-3

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