

SABIC® HDPE B5933

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5933 is typically used for blow moulding and extrusion, combining high stiffness with very good processability. This grade is typically used for bottles and cans for packaging low-surfactants and sheet.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Good Processability		
	High Density		
	High Stiffness		
Uses	Bottles		
	Packaging		
	Sheet		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.35	g/10 min	
190°C/21.6 kg	33	g/10 min	
190°C/5.0 kg	1.5	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	35.0	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)	1200	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	28.0	MPa	
Break, 2.00 mm, Compression Molded	19.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1450	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	5.0	kJ/m ²	
23°C, Compression Molded	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	86.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	134	°C	ISO 11357-3
Enthalpy Change	218	J/g	ISO 11357-3

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Recommended distributors for this material

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