

SABIC® HDPE B5260LS

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5260LS exhibits good processing properties, typically on high speed extrusion blow moulding machines for UHT milk bottles. Its broad molecular weight distribution offers typically good behaviour during extrusion and blowing, and it is typically used for multi- and mono-layer constructions. Furthermore it has good organoleptic properties, which are required in for example the packaging of dairy products, such as sterilized milk. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Good Organoleptic Properties		
	Good Processability		
	High Density		
	Wide Molecular Weight Distribution		
Uses	Bottles		
Processing Method	Blow Molding		
	Extrusion Blow Molding		

Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	2.0	g/10 min	
190°C/21.6 kg	60	g/10 min	
190°C/5.0 kg	7.0	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	10.0	hr	ASTM D1693B

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	61		ISO 868

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	31.0	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 ²	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	202	J/g	ISO 11357-3

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