

SABIC® HDPE BM6246LS

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE BM6246LS is a high density polyethylene blow moulding grade for high rigidity, good toughness and good processability. These properties offer bottles to be made at lower weight with very good top load strength.

Typical applications.

SABIC® HDPE BM6246LS is typically used for blow moulding bottles for packaging organoleptically sensitive products, e.g. milk, fruit juice and other dairy products. It is not recommended for packaging environmentally active materials such as soaps, detergents, shampoos, etc.

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

General Information			
Features	Good Processability		
	Good Toughness		
	High Density		
	High Rigidity		
Uses	Bottles		
	Fruit Juice Bottles		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.70	g/10 min	
190°C/21.6 kg	46	g/10 min	
190°C/5.0 kg	2.5	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	15.0	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)	1250	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	29.0	MPa	
Break, 2.00 mm, Compression Molded	18.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1550	MPa	ISO 178

Flexural Stress (2.00 mm, Compression Molded)	31.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	7.0	kJ/m ²	
23°C, Compression Molded	13	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	134	°C	ISO 11357-3
Enthalpy Change	223	J/g	ISO 11357-3
Blow Molding Barrel Temperature	175 to 200	°C	
Blow Molding Melt Temperature	205	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

