SABIC® HDPE B6246LS

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B6246LS is typically used in food and beverage packaging, offering good purity and organoleptics as well as recycle ability. It combines a high rigidity with very good processing performance, which offers potential for system cost reduction.
The grade is typically used for the blow moulding of mono as well as multi layer bottles in several food markets, like fresh, pasteurised and ultra heat treated milk, sauces, orange juice, functional drinks, probiotics and other "daily shot" drinks. The material properties offer the possibility to reduce weight at good top load strength.
This slip agent free grade is also typically used for the injection moulding of caps & closures for carbonated soft drinks and sparkling water as well as high environmental stress crack resistant applications, like UN-pails and UN-caps & closures.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Features	Food Contact Acceptable
	Good Organoleptic Properties
	Good Processability
	High Density
	High ESCR (Stress Crack Resist.)
	High Purity
	High Rigidity
	Recyclable Material
Uses	Bottles
	Caps
	Closures
	Food Packaging
	Fruit Juice Bottles
Processing Method	Blow Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.50	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)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	1300	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)	1600	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)	89.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	135	°C	ISO 11357-3
Enthalpy Change	225	J/g	ISO 11357-3

Recommended distributors for this material

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