

SABIC® HDPE B6246

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B6246 is developed for thin walled packaging processed at high production speed. This grade is suitable for packaging of milk, yoghurt, fruit juice and is suitable in extrusion applications for profiles.

General Information			
Features	Rigid, good		
	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Good toughness		
	Medium wide molecular weight distribution		
Uses	Food packaging		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.50	g/10 min	ISO 1133
190°C/21.6 kg	46	g/10 min	ISO 1133
190°C/5.0 kg	2.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (75°C, 1.00 mm, Rhodacal-DS10, Compression Molded)	5.00	hr	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (15 seconds, 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, 2.00mm, molded	29.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	18.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C, molded	7.0	kJ/m ²	ISO 180/1A
23°C, molded	13	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	89.0	°C	ISO 75-2/B
Vicat Softening Temperature	128	°C	ISO 306/A50
Melting Temperature	135	°C	DIN 53765
Enthalpy Change	225	J/g	DIN 53765

NOTE

1. 3 MPa

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