

SABIC® HDPE B4660AB

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC®HDPE B4660AB is a high density polyethylene product. It can be processed by blow molding or profile extrusion molding and is available in Europe. Typical application areas are: bottles.

Features include:

Good processability

Hard

accessible food

Good toughness

General Information			
Features	Rigidity, high		
	Workability, good		
	Good toughness		
	Compliance of Food Exposure		
Uses	Blow molding applications		
	Bottle		
	Profile		
Forms	Particle		
Processing Method	Blow molding		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.70	g/10 min	ASTM D1238
190°C/21.6 kg	46	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded, F50)	70.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	1200	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, molding	30.0	MPa	ASTM D638
Fracture, molding	32.0	MPa	ASTM D638

Tensile Elongation (Break, Compression Molded)	800	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525 ¹
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	175 - 200	°C	
Melt Temperature	205	°C	
NOTE			

1. 压力1 (10N)

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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

