

# SABIC® HDPE B4660AB

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

# PROSPECTOR®

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## Technical Data

### Product Description

SABIC® HDPE B4660AB is a High Density Polyethylene product. It can be processed by blow molding or profile extrusion and is available in Europe. Typical application: Bottles.

Characteristics include:

- Food Contact Acceptable
- Good Processability
- Good Toughness
- Rigid

### General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Saudi Basic Industries Corporation (SABIC)
Availability	• Europe
Features	• Food Contact Acceptable • Good Processability • Good Toughness • High Rigidity
Uses	• Blow Molding Applications • Bottles • Profiles
Forms	• Pellets
Processing Method	• Blow Molding • Profile Extrusion

Physical	Nominal Value Unit	Test Method
Density	0.961 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.70 g/10 min	
190°C/21.6 kg	46 g/10 min	
Environmental Stress-Cracking Resistance 100% Igepal, Compression Molded, F50	70.0 hr	ASTM D1693B

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	1200 MPa	ASTM D638
Tensile Strength		ASTM D638
Yield, Compression Molded	30.0 MPa	
Break, Compression Molded	32.0 MPa	
Tensile Elongation		ASTM D638
Break, Compression Molded	800 %	

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (Compression Molded)	90 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Durometer Hardness		ASTM D2240
Shore D, Compression Molded	68	

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	-75.0 °C	ASTM D746
Vicat Softening Temperature	128 °C	ASTM D1525 <sup>2</sup>

Extrusion	Nominal Value Unit
Cylinder Zone 1 Temp.	175 to 200 °C
Melt Temperature	205 °C

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Loading 1 (10 N)



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### Where to Buy

#### Supplier

##### Saudi Basic Industries Corporation (SABIC)

Riyadh, Saudi Arabia

Telephone: +966-1-225-8000

Web: <http://plastics.sabic.eu/>

#### Distributor

##### GAZECHIM PLASTIQUES

*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*

Telephone: +33-4-67-49-55-37

Web: <http://www.gazechim.com/>

Availability: France

##### GUZMAN GLOBAL S.L

Telephone: +34-963-992-400

Web: <http://www.grupoguzman.com/>

Availability: Portugal

##### Nexeo Solutions - Europe

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

Telephone: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

Availability: Ireland, Poland, United Kingdom

##### RESINEX Group

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

