

POLYMERS

# SABIC<sup>®</sup> HDPE Blow molding B4660

Series

## PRODUCT DESCRIPTION

B4660 Series grades are medium molecular weight High Density Polyethylene homopolymer for blow molding Applications. They are primarily Designed for imparting high rigidity, toughness and good processability. These unique properties offer the possibility to reduce weight at very good top load strength.

B4660 series includes following grades:

B4660: Suitable for Dairy products and Juice Packaging, B4660AB: Suitable for Water packaging

## TYPICAL APPLICATIONS

B4660 Series resins are primarily intended for blow molding bottles for the food and beverage industry. The grade B4660AB is specifically recommended for water packaging applications. The grades are intended to meet customer specifications in respect of purity, healthiness and organoleptic. They can also be used in other hollow thin-walled parts and profile extrusions. They are not recommended for packaging Environmentally active materials such as soaps, detergents, shampoos, etc.

## TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	0.7	ASTM D 1238
@ 190°C & 5 kg load		2.8	
@ 190°C & 21.6 kg load		46	
Density @ 23°C	Kg/m <sup>3</sup>	961	ASTM D 1505
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
1% Secant Modulus	MPa	>1000	ASTM D 638
Tensile Strength @ Yield	MPa	30	ASTM D 638
Tensile Strength @ Break	MPa	18	ASTM D 638
Tensile Elongation @ Break	%	500	ASTM D 638
Flexural Strength	MPa	28	ASTM D 790
Flexural Modulus	MPa	1100	ASTM D 790
Izod Impact	J/m	150	ASTM D 256
Hardness (Shore D)	-	66	ASTM D 2240
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	°C	127	ASTM D 1525
Brittleness Temperature	°C	< -75	ASTM D 746

(1) Typical values: not to be construed as specification limits.

(2) Based on compression molded sheet.

Processing Conditions:

Typical processing conditions for B4660 are:

Barrel temperature: 170-200°C

Melt temperature: 180-210°C

## HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

## STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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