

Producer: Saudi Basic Industries Corporation (Sabic) / Kingdom of Saudi Arabia

## HDPE B4660

### 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

B4660AB: Suitable for Water packaging

### Application :

**B4660** Series resins are primarily intended for blow molding bottles for the food and beverage industry. The grade **B4660AB** is specially recommended for water packaging applications. The grades are intended to meet customer specifications in respect of purity, healthiness and organoleptics. 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.

PROPERTIES	UNIT	VALUES <sup>(1)</sup>	TEST METHOD
Melt flow Rate			
Density	g/10 min.	0.7	ASTM D 1238
@ 190°C & 2.6 kg load		2.8	
@ 190°C & 5 kg load		46	
@ 190°C & 21.6 kg load		961	
Density 23°C	kg/m <sup>3</sup>		ASTM D 1505
<b><u>Mechanical Properties<sup>(2)</sup></u></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><u>Thermal Properties</u></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

### Not:

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