

POLYMERS

SABIC[®] 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 ⁽¹⁾	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 ³	961	ASTM D 1505
MECHANICAL PROPERTIES ⁽²⁾			
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
THERMAL PROPERTIES			
Vicat Softening Point	°C	127	ASTM D 1525
Brittleness Temperature	°C	< -75	ASTM D 746