

# B4660 Series

HDPE for Blow Molding

B4660 Series are High Density Polyethylene (HDPE) blow molding grade resin designed for high rigidity, excellent toughness and good processability. These properties offer bottles to be made at lower weight with very good top load strength.

## Typical Applications

B4660 and B4660AB resins are primarily intended for blow molding bottles for packaging products. B4660 is designed for milk, fruit juice and other dairy products. B4660AB is designed for packaging water. They can also be used in other hollow thin-walled parts and profile extrusions. The product is not recommended for packaging environmentally active materials such as soaps, detergents, shampoos, etc.

Physical Properties	Unit	Value <sup>(1)</sup>	ASTM Method
Melt index	g/10 min.	0.7	D-1238
HLMI <sup>(2)</sup>	g/10 min.	46	D-1238
Density	g/cm <sup>3</sup>	0.961	D-1505
Vicat softening point	°C	128	D-1525
Brittleness temperature	°C	<-75	D-746
Secant modulus @1%elongation	MPa	1200	D-638
Tensile strength @yield	MPa	30	D-638
Tensile strength @break	MPa	32	D-638
Elongation @break	%	800	D-638
Izod impact	J/m	90	D-256
Hardness (shore D)	-	68	D-2240
ESCR (100%Igepal), F <sub>50</sub>	Hrs.	70	D-1693B

Test specimen is prepared from compression molded sheet made according to ASTM D-1928 Procedure C.

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

(2) High Load Melt Index has been found to be more accurate reference for B4660 Series.

### **Processing Conditions**

Typical molding conditions for B4660 and B4660AB are:

Barrel temperature °C = 175 - 200

Melt temperature °C = 205

### **Food Regulation**

Certificate is available on request.

*NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.*

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