

## POLYMERS

# SABIC<sup>®</sup> HDPE Blow molding B5822

## PRODUCT DESCRIPTION

HDPE B5822 is high density polyethylene specially developed for small blow molded bottles. The material offers easy flow, higher stiffness, very good ESCR and sufficient impact strength.

## TYPICAL APPLICATIONS

B5822 is specially designed for small blow molded bottles Applications (<10 L) for packaging consumer goods (cosmetics, dairy care), detergents and for toys. The grade is intended for food contact application.

## TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	0.3	ISO 1133
@ 190°C & 5 kg load		1.2	
@ 190°C & 21.6 kg load		22	
Density @ 23°C	Kg/m <sup>3</sup>	958	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Modulus	MPa	1350	ISO 527-1, -2
Tensile Stress @ Yield	MPa	28	ISO 527-1, -2
Tensile Strain @ Yield	%	7.5	ISO 527-1, -2
Tensile Impact Strength @ -30°C (Notched)	kJ/m <sup>2</sup>	75	ISO 8256
Charpy notched Impact Strength (-30°C, Type 1, Notch A)	kJ/m <sup>2</sup>	6.5	ISO 179
Hardness (Shore D)	-	64	ISO 868
FNCT (3.5 MPa, 2 % igepal BC/9, 80°C)	Hrs	8	ISO 16770
ESCR	Hrs	150	ASTM D 1693B

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

(2) Based on compression molded sheet.

Processing condition:

Recommended processing temperature 180-220°C