

SABIC® HDPE B5822

HIGH DENSITY POLYETHYLENE - REGION
GLOBAL

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 PROPERTY VALUES

Revision 20170223

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate ⁽¹⁾			
@ 190°C & 2.16 kg load ⁽¹⁾	0.3	g/10 min	ISO 1133
@ 190°C & 5 kg load ⁽¹⁾	1.2	g/10 min	ISO 1133
@ 190°C & 21.6 kg load ⁽¹⁾	22	g/10 min	ISO 1133
Density @ 23°C ⁽¹⁾	958	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Modulus ⁽²⁾	1350	MPa	ISO 527-1/-2
Tensile Stress @ Yield ⁽²⁾	28	MPa	ISO 527-1/-2
Tensile Strain @ Yield ⁽²⁾	7.5	%	ISO 527-1/-2
Tensile Impact Strength @ -30°C (Notched) ⁽²⁾	75	kJ/m ²	ISO 8256
Charpy Notched Impact Strength (-30°C, Type 1, Notch A) ⁽²⁾	6.5	kJ/m ²	ISO 179
Hardness (Shore D) ⁽²⁾	64	-	ISO 868
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C) ⁽²⁾	8	hrs	ISO 16770
ESCR ⁽²⁾	150	hrs	ASTM D1693B

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

(2) Based on compression molded sheet.

PROCESSING CONDITIONS

Recommended processing temperature 180-220°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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.

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