

Product Data Sheet

Polyethylene

Borstar® BB2581

HIGH DENSITY POLYETHYLENE FOR BLOW MOULDING

DESCRIPTION

Borstar® BB2581 is a high density polyethylene intended for blow moulding of products with high stiffness and very good environmental stress crack resistance (ESCR).

APPLICATIONS

Borstar® BB2581 is recommended for household and industrial chemicals such as detergents, cleaners, motor oils etc.

The product is recommended for bottles and containers up to 20 litres.

SPECIAL FEATURES

The product has the following features:

- Superior Environmental Stress Crack resistance
- High stiffness
- Easy flow

PHYSICAL PROPERTIES

		Typical Value*	Unit	Test Method
Density		958	kg/m ³	ISO 1183
Melt Flow Rate MFR ₂	(190°C/2.16 kg)	0.35	g/10 min	ISO 1133
Melt Flow Rate MFR ₅	(190°C/5.0 kg)	1.8	g/10 min	ISO 1133
Melt Flow Rate MFR ₂₁	(190°C/21.6 kg)	28	g/10 min	ISO 1133
Tensile modulus	(1mm/min)	1300	Mpa	ISO 527-2
Stress at yield	(50mm/min)	30	MPa	ISO 527-2
Strain at yield	(50mm/min)	8	%	ISO 527-2
Flexural modulus	(1mm/min)	1250	MPa	ISO 178
Shore D hardness		66	-	ISO 868
Heat Deflection Temp. (0.45 N/mm ²)		80	°C	ISO 75-2
ESCR*		100	h	ASTM1693-B

* Typical value for guideline only.

PROCESSING GUIDELINES

Borstar®BB2581 is easy to extrude and can be used in all conventional blow moulding machines. A melt temperature of 170-200°C is recommended.

Temperature

Barrel:	170-190°C
Die:	175-190°C

STORAGE

BB2581 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

More information on storage can be found in Safety Information Sheet (SIS) for this product.

SAFETY

The product is not classified as a hazardous preparation.

Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge representative.

RECYCLING

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

RELATED DOCUMENTS

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Safety Information Sheet
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations

Borstar is a registered trademark of the Borealis group

DISCLAIMER

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borouge makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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