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Preliminary

Polyethylene Borstar® BB2588

High Density Polyethylene

Description

Borstar BB2588 is a multimodal high density high-molecular weight polyethylene produced by the proprietary Borstar® technology combining high stiffness, superior environmental stress cracking resistance and excellent processability.

Typical characteristics

TDB BB2588 can be described with following typical characteristics:

- Superior environmental stress cracking resistance
- High stiffness
- Excellent processability

Applications

TDB BB2588 is intended for following applications:

Borstar BB2588 is recommended for bottles and containers up to 10l containing household and industrial chemicals, such as detergents, cleaning agents, motor oils.

Physical properties

Property	Typical value *	Unit	Test method
Density	958.0	kg/m ³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	0.22	g/10min	ISO 1133-1
Melt flow rate (190 °C/5 kg)	0.90	g/10min	ISO 1133-1
Melt flow rate (190 °C/21.6 kg)	23.0	g/10min	ISO 1133-1
Flex modulus 23°C/24h	1400	MPa	ISO 178
Melting temperature	132	°C	ISO 11357-3
Crystallisation temperature	117	°C	ISO 11357-3
V6-Vicat softening point	127	°C	ISO 306
Tensile modulus 96h	1300	MPa	ISO 527-2
Tensile strain at yield 24h	8	%	ISO527-2
Tensile stress at yield 24h	30	MPa	ISO 527-2
ESCR 10% 2mm F50	e1000	f50/h	ASTM D 1693-B
Shore-D 1s	66	-	ISO 868
Heat deflection temperature B (0.45 MPa)	80	°C	ISO 75-2
Charpy notched 23°C/24h	12	kJ/m ²	ISO 179-1
Izod impact strength, notched (23 °C)	159	kJ/m ²	ISO 180

* Data should not be used for specification work

Processing techniques

Borstar BB2588 is easy to extrude and can be used in all conventional blow-moulding machines. Barrel 170 - 190 °C Die 175 - 190 °C Melt temperature 170 - 200 °C



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Packaging and storage

TDB BB2588 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.chemicals-plus.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our www.chemicals-plus.com.

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.

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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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