

PRODUCT DATA SHEET

POLYETHYLENE

BB1530

HIGH DENSITY POLYETHYLENE FOR BLOW MOULDING

DESCRIPTION

BB1530 is a high density polyethylene resin based on Hexene comonomer produced by the proprietary **Borstar®** process. This product is intended for blow moulding of large size containers and jerrycans with combination of high stiffness, good impact resistance and superior environmental stress crack resistance (ESCR). This product has a broad molecular weight distribution and high molecular weight. This product provides an excellent combination of extrudability and parison stability, which contribute to uniform wall thickness in large parts.

APPLICATIONS

BB1530 is recommended for

- Jerry cans
- Conduits
- IBC Tanks
- Drums, Containers for Chemicals Detergent and Lube oils.
- Composite cylinder,
- Large Blow Molding tanks

PHYSICAL PROPERTIES

Property	Typical Value*	Test Method
Density	953 kg/m ³	ISO 1183
Melt Flow Rate (MFR5) (190°C / 5kg)	0.3 g/10min	ISO 1133
Melt Flow Rate (MFR21) (190°C / 21.6kg)	9 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1130 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	9 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	26 MPa	ISO 527-2
Flexural Modulus (2mm/min)	1250 MPa	ISO 178
Charpy Impact Strength, notched (23 °C)	27 KJ/m ²	ISO 179
Vicat softening temperature A50, (10 N)	126°C	ISO 306
Heat Deflection temperature, 0.45 MPa	69°C	ISO 75-2
Shore Hardness (Shore D, 1 Sec.)	62	ASTM D2240
ESCR (10% Igepal, F50)	>1000 Hours	ASTM D1693-B

*Data should not be used for specification work

PROCESSING GUIDELINES

BB1530 is easy to extrude and can be used in all conventional blow moulding machines. A melt temperature of 170-210°C is recommended.

Temperature

Barrel: 170-210°C

Die: 190-210°C

Specific recommendations for processing conditions can be determined only when the application and type of equipment is known. Please contact your local Borouge representative for such particulars.

STORAGE

BB1530 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper

storage can initiate degradation, which results in odor generation and color changes and can have negative effects on the physical properties of this product. More information on storage can be found on the Safety Information Sheet (SIS) for this product.

SAFETY

The product is not classified as a dangerous preparation.

Please see our Product 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.

Product safety information sheet (SIS)

Statement on chemicals, regulations, and standards

Statement on compliance to food contact regulations

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.

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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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