PRODUCT DATA SHEET

05.02.2025 Ed.1

Polypropylene

BorECO™ BA415E

Polypropylene Block Copolymer for Pipe Applications

Description

BorECO™ BA415E is a high molecular weight, low melt flow rate polypropylene block copolymer with high stiffness and impact strength.

This material has been designed for improved processability and higher output, especially in the production of corrugated pipes.

Applications

BorECO™ BA415E is intended for following applications:

Non-pressure pipe systems

BorECO BA415E is recommended for solid wall and structured wall non-pressure gravity pipes, profiles, fittings and chambers.

Physical properties

Property	Typical value *	Unit	Test method
Flexural modulus	1500	MPa	ISO 178
Melt flow rate (230 °C/2.16 kg)	0.45	g/10min	ISO 1133-1
Tensile strain at yield (50 mm/min)	8	%	ISO 527-2
Tensile stress at yield (50 mm/min)	29	MPa	ISO 527-2
Charpy impact strength, notched (23 °C)	60	kJ/m²	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	5	kJ/m²	ISO 179-1/1eA

* Data should not be used for specification work

Processing techniques

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

Processing setting	Typical value/range
Cylinder temperature	200 - 220 °C
Die temperature	210 - 220 °C
Head temperature	210 - 220 °C
Melt temperature	210 - 230 °C

Packaging and storage

BorECO™ BA415E 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.borealisgroup.com.

BorECO™ is a trademark of the Borealis Group

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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 websites www.borealisgroup.com and www.borealiseverminds.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.
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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