

# Product News

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## BorECO™ BA415E – A milestone in processing excellence

### Taking the lead in corrugated pipe systems

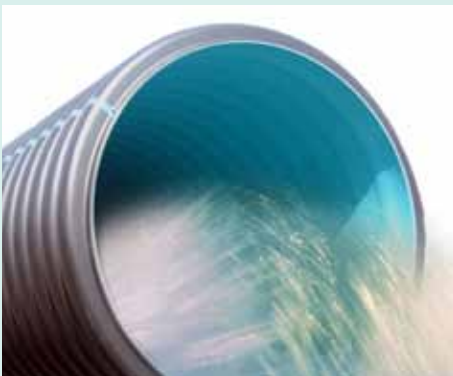
In the highly competitive segment of corrugated sewage and drainage pipes, pipe producers are striving for higher efficiency during the whole production process. The growing need for faster and more cost-efficient pipe production with higher output and less energy consumption during the extrusion process has led to new innovations in processing excellence.

BorECO™ BA415E is a new Polypropylene Block Copolymer grade for non-pressure pipe applications developed by Borealis to meet this growing market need. The outstanding processability of BorECO™ BA415E contributes to a significantly higher throughput and lower energy consumption during the extrusion process. Besides key characteristics like excellent mechanical properties, the performance profile of BorECO™ PP also includes compatibility with all conventional jointing techniques.

### BorECO™ BA415E key benefits

- More throughput in the same time span leading to a reduction in energy use and overall production costs
- Improved pipe quality through a smoother inner surface and reduced waviness for better hydraulic capacity
- Exceeds material requirements in EN13476 and EN1852-1:2009

BorECO™ BA415E substantially improves the overall quality and the aesthetic appearance of the pipe. It allows for a more precise corrugated outer layer. When used as a pipe inner layer, the occurrence of sink marks and chips is eliminated and potential waviness on the inner surface is reduced significantly. This high quality inner surface improves the black water flow and eliminates the risk of water stagnation which is often the reason for the generation of bacteria and bad odours.



## BorECO™ BA415E: the universal material for extrusion and injection moulding

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

Due to its outstanding processing performance in both extrusion and injection moulding, BorECO™ BA415E is the first choice for leading pipe and fitting manufacturers. BorECO™ BA415E exceeds the requirements of EN 13476 "Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems" and EN1852-1:2009 "Plastics piping systems for non-pressure underground drainage and sewerage".

## BorECO™ PP: durable solutions for eco-friendly sewage systems

BorECO™ PP based gravity pipe systems have an excellent track record and ensure decades of trouble-free pipe operation for the network owner. They contribute to sustainable waste water management by eliminating water losses and reducing material and energy consumption throughout production, transportation and operation.

BorECO™ PP gravity pipelines are leak-tight sewage systems, making an important contribution to environmental protection. These PP pipe systems have structural integrity and are flexible enough to support ground movements.

Property	Typical value	Test method
Flexural modulus	1500 MPa	ISO 178
MFR (230°C/2.16 kg)	0,5g/10min	ISO 1183
Tensile Strain at Yield (50 mm/min)	10%	ISO 527-2
Tensile Strain at Yield (50 mm/min)	29 MPa	ISO 527-2
Charpy Impact Strength, notched (23°C)	60 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20°C)	6 kJ/m <sup>2</sup>	ISO 179/1eA

Table 1: BorECO™ BA415E characteristics



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centres and service centres work with customers in more than 170 countries to provide materials that make an essential contribution to society and sustainable development. We are committed to the principles of Responsible Care® and to leading the way in 'Shaping the Future with Plastics'™.

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**For more information contact:**

info@borealisgroup.com | info@borouge.com  
www.borealisgroup.com | www.borouge.com  
+43 1 22 400 000 | +65 6275 4100