

Media Release

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Borealis and Bockatech showcase next-generation plastic foaming technology for more sustainable yet cost-saving thin wall and reusable packaging

- **Winning combination of Borealis polypropylene and Bockatech EcoCore® injection moulding technology produces lightweight reusables and packaging for the thin wall market at reduced cost**
- **Even greater sustainability gains made possible thanks to EcoCore platform's compatibility with grades from the Borneables™, Borcycle™ C and Borcycle™ M portfolios**
- **Development in line with EverMinds™ initiatives promoting design for reuse, recycling, and eco-efficiency for wiser use of resources**

Borealis and Bockatech, inventor and licensor of the innovative EcoCore® manufacturing technology, are showcasing lightweight and ultra-lightweight reusable cups made of Borealis polypropylene (PP) using the patented EcoCore plastic foaming technology. These robust and fully recyclable cups represent the many thin wall and reusable packaging applications that can be developed using Borealis PP resins and the next-generation EcoCore foaming technology. True to the [EverMinds™](#) ambition to accelerate circularity, Borealis and Bockatech are easing the transition for converters and brand owners by providing high-performance, sustainable packaging solutions that can be produced using existing equipment and processes, yet at low cost.

Today's ultra-lightweight cups made using Borealis PP and the EcoCore technology platform for sustainable packaging are even lighter than many conventional single-use paper cups. Yet they boast good insulation properties, with twice the thermal barrier of PP cups with solid walls of the same weight. Durable EcoCore mouldings can be microwave and dishwasher-safe. Because they are made solely of PP, they are easy to recycle once they have reached end of life after hundreds of use cycles.

EcoCore produces durable, monomaterial moulding walls with a composite skin-foam-skin structure in only seconds, and at low cost. When using the innovative technology and Borealis PP in combination, converters and brand owners benefit from:

- Up to 50% less plastic used in production when compared to solid wall mouldings;
- Improved recyclability of moulding and injection moulded labels (IML) thanks to monomaterial PP;
- Suitability for existing injection moulding machines, ancillary equipment, and processes;
- Shorter cycle times of 5 to 7 seconds;
- Design freedom for shapes, colours, transparency, high-precision details as well as for decorative elements such as in-mould labelling.

“With our partner Bockatech we’ve made unique progress in making thin wall and reusable packaging even more sustainable. The compatibility of the EcoCore platform with a variety of PP resins enhances its appeal to our customers,” says Peter Voortmans, Borealis Global Commercial Director Consumer Products. “Our [Borneables™](#) portfolio of circular polyolefins, and our transformational [Borcycle™ C](#) family of chemically-recycled grades can be used as drop-in solutions for food and non-food. In addition to that, [Borcycle™ M](#) our portfolio of mechanically recycled grades enables production of non-food applications. All three solutions can further lower the carbon footprint of thin wall packaging whilst maintaining high performance – with this we re-invent essentials for sustainable living.”

“At K 2022 we’re excited to be able to show how value chain collaboration is making reuse and eco-efficiency more affordable for consumers and brands,” says Chris Bocking, Bockatech Founder and Chief Strategy Officer. “We’re also looking forward to demonstrating what EcoCore can do with a broad range of more sustainable reusable and thin wall applications, including bowls for to-go food service, pots for foods such as noodles as well as soups, pails and even aerosol caps.”



Photo | The 430ml 14g ultra lightweight and 250ml 15g lightweight foamed PP reusable and recyclable cups made with EcoCore will be displayed on Borealis and Borouge stand at K 2022. The 430ml 14g ultra lightweight reusable cup made with EcoCore weighs less than many single-use paper cups and is widely recyclable. Photo: © Bockatech



Photo | EcoCore has a wide range of reusable as well thin wall packaging uses and creates mouldings with skin-foam-skin walls in seconds. Photo: © Bockatech

K 2022 will take place from 19 to 26 October 2022 in Düsseldorf, Germany.

We invite you to “Innovate Collaborate Accelerate” together with us by visiting Borealis and Borouge in Hall 6 at Stand A43. Freshly-brewed coffee will be served in two sizes by baristas in reusable lightweight cups made using Borealis PP, as well as Bockatech EcoCore technology and our partners’ expertise.

The ultra-lightweight (430 ml) cups featured at the Borealis and Borouge stand at the K 2022 weigh just 14 g and are produced in around five seconds using an Arburg electric Injection Moulding Machine (IMM) with a Roboplas robot and Trexel MuCell® physical gas along with a chemical foaming agent (CFA). In addition to this, a live demonstration will run at the Trexel stand, [Hall 13 Stand B46](#) during the K Fair. The lightweight (250 ml) cups weigh around 15 g and are made by PACCOR using CFA alone. Both cup types have durable insulated 2 mm skin-foam-skin walls and are moulded using an optimised Borealis PP resin blend with dishwasher-proof, PP in-mould labels from MCC Verstraete that feature [HolyGrail 2.0](#) digital watermarking.

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About Borealis

Borealis is one of the world's leading providers of advanced and sustainable polyolefin solutions and a European front-runner in polyolefins recycling. In Europe, we are a market leader in base chemicals and fertilizers. We leverage our polymer expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries such as consumer products, energy, healthcare, infrastructure and mobility. In re-inventing essentials for sustainable living, we build on our commitment to safety, our people, innovation and technology, and performance excellence. We are accelerating the transformation to a circular economy of polyolefins and expanding our geographical footprint to better serve our customers around the globe.

With head offices in Vienna, Austria, we employ 6,900 employees and operate in over 120 countries. In 2021, we generated total sales of EUR 12.342 billion and a net profit of EUR 1,396 million. OMV, the Austria-based international oil and gas company, owns 75% of our shares, while the remaining 25% is owned by a holding company of the Abu-Dhabi based Mubadala. We supply services and products to customers around the globe through Borealis and two important joint ventures: Borouge (with the Abu Dhabi National Oil Company, or ADNOC, based in UAE); and Baystar™ (with TotalEnergies, based in the US). www.borealisgroup.com | www.borealiseverminds.com

About Borouge

Borouge, listed on the Abu Dhabi Securities Exchange (ADX symbol "BOROUGE" / ISIN "AEE01072B225"), is a leading petrochemical company that provides innovative and differentiated polyolefin solutions for the energy, infrastructure, mobility, advanced packaging, healthcare and agriculture industries. ADNOC owns a majority 54% stake and Borealis holds a 36% stake in Borouge.

To find out more, visit:

borouge.com

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About Bockatech

Bockatech is a growth company that provides its patented EcoCore technology for foam plastic injection moulding under license. EcoCore is helping some of the world's leading food service and FMCG brands to create more sustainable high-performance thin-wall and reusable packaging that is cost-effective. The innovative technology gives brands and converters a competitive edge in a wide range of sectors and applications, including retail food, caps / closures, food service, paint / industrial pails and healthcare.

EcoCore is used for food service reusables in cities around Europe and was trusted for the cups used by world leaders at the COP 26 United Nations climate change conference. EcoCore has also been awarded the Solar Impulse Efficient Solution label for its potential to help businesses and governments meet their environmental commitments. And, it was recognised by the Ellen MacArthur Foundation as a pioneering solution for reuse.

www.bockatech.com

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