Borealis & Mobility
Exterior Solutions

Optimized performance and surface aesthetics

Keep Discovering

BOREALIS

بروج
Borouge

Contents

We help you excel in mobility

Reduce weight

Innovating for lightweight solutions

Borealis strives for sustainable mobility by innovating to reduce vehicle weight and enhance its energy efficiency. We collaborate with OEMs, TIERs, and value chain partners to deliver tangible benefits to the industry, drivers, passengers, and the environment. Our cutting-edge innovation comes with unparalleled quality control assurance.

Improve sustainability

Promoting circular economy solutions

Polyolefins provide a lower environmental footprint compared to many conventional materials. Recognizing that plastics are too valuable to waste, Borealis drives the transition to a circular economy for plastics with our advanced mechanical recycled Borcycle™ M, chemical recycled Borcycle™ C, and bio-sourced Bornewables™. They focus on recycling post-consumer waste, reducing CO_2 emissions, and decoupling from fossil-based feedstocks while maintaining high-performance standards.

Save costs

Delivering cost-efficient high-performance alternatives

The polypropylene (PP) compound solutions offered by Borealis and Borouge are cost-efficient and high-performance alternatives to conventional metal and engineering plastics. Our tailor-made materials are easy to process, even in complex geometries and surface textures. Enabling design freedom and highly functional parts across a wide range of process parameters. They create robust surfaces with excellent aesthetics, paintability, and high scratch resistance.

Access globally

Growing global footprint and local presence

With operations in over 120 countries, the Borealis and Borouge footprint is truly global. Our presence on the ground enables us to provide dedicated support to automotive OEMs and Tiers all over the world. Highly skilled and experienced teams in our development centers and operations in Europe, the Americas, and Asia are re-inventing plastics for sustainable mobility.

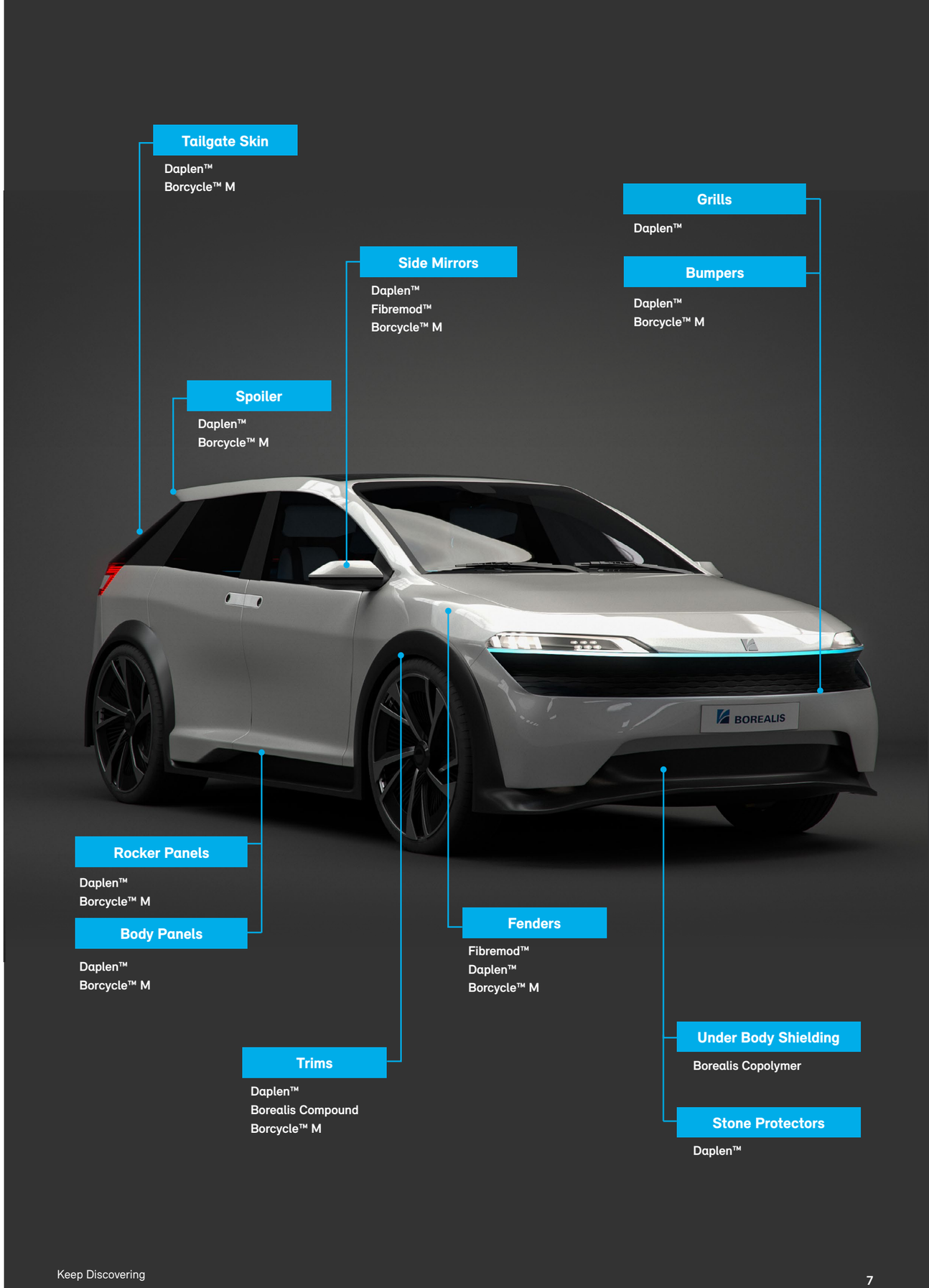
Borealis Exterior Solutions for Mobility

Dedicated to Sustainable Mobility

Mobility is a core business segment at Borealis. We apply our specialist knowledge and decades of experience to develop innovative and sustainable polypropylene (PP) solutions for a broad range of exterior applications, including bumpers, body panels, trims, and more.

Our comprehensive range of PP and TPO polymers and compounds have precisely balanced and tailored properties to match the specific needs of the automotive industry. They add value by helping manufacturers lower system costs while at the same time maintain the highest performance standards. Crucially, these materials help reduce the amount of material and energy inputs required – a significant boost for sustainability.

The newest additions to the Daplen™, Fibremod™ and Borcycle™ grade portfolios boast the lowest densities in combination with excellent surface aesthetics and high purity. With these key features, we aim to support you in implementing sustainable exterior applications.



Powered by Innovation

The automotive industry is undergoing one of the largest transformations in decades. The convergence of trends such as electrification, connectivity, shared mobility, and autonomous vehicles are turning cars into intelligent computer-driven systems rather than an assembly of mechanical parts. Borealis and Borouge are dedicated to delivering innovative material solutions to meet the changing mobility needs of today, and to anticipate those of tomorrow.

Processability
Flowability
Cycle time
Shrinkage
Wide processing window

Surface Quality
Metallic and special effects
Scratch resistance
Class-A surfaces
Translucency
Paintability

Physical Properties
Thermal expansion
Impact strength
Stiffness
Density

Stabilization
UV resistance
Heat resistance
Chemical resistance

To drive innovation in the mobility sector, we draw on expertise gained over the past five decades. We collaborate with customers and partners along the entire automotive value chain, and co-operate closely with Tier 1 and 2 suppliers. At our in-house R&D facilities, including three world-class Innovation Centers, our innovation teams assist in the development of novel material solutions. We offer a range of technical services: from ideation to part design, prototype simulation and testing of batch samples, and even to support in initiating series production. In addition to optimizing our own processes and methodologies, we offer specific services in mobility-related testing.

As mobility is transformed, so are the demands placed on automotive exteriors. Materials must be robust yet lightweight; tough and durable, yet aesthetically pleasing. Our PP can be tailored to meet the unique material requirements for each respective application, and are engineered for peak performance.

Examples of mobility related application testing


Paint Robot


Tiger Stripe


Emission, fogging & odor


Shrinkage Tool


Material & Application Testing


Analytical and Physical Testing


Advanced Polymer Characterization


Modeling and Simulation


Plastics Conversion Technologies

Reduce weight

In some applications, advanced polyolefins-based solutions are ideal replacements for materials such as metal, rubber, and engineering polymers. They facilitate lightweight construction, which in turn enables greater energy efficiency.

There are many good reasons why compounds from our comprehensive Daplen™ and Fibremod™ portfolios are the preferred material solutions when it comes to lightweighting:

- Lower material density thanks to lower amounts of filler content
- Reduced wall thickness and lower weight thanks to increased stiffness of the material (and by extension, the part)
- Fast and easy filling of low wall-thickness molds due to improved flowability
- Fewer additional joining elements and fittings due to integrated and space-saving part design
- Less production scrap and lower costs thanks to good processability

Daplen™ EF150HP

The ideal substitute for engineering plastics, Daplen™ EF150HP is a 16% mineral-filled elastomer modified PP compound intended for injection molding. Thanks to its excellent stiffness/impact balance, it is an ideal replacement for ASA and PC/ABS when used on grills, body panels, and other demanding applications.

- Lightweight material suitable as substitute for engineering plastics
- Excellent surface aspect for unpainted parts
- Very good scratch resistance
- High dimensional stability
- Excellent impact/stiffness balance

Fibremod™ GE409SFB

As a high performance 40% glass fiber reinforced PP compound, Fibremod™ GE409SFB boasts excellent mechanical properties, even at elevated temperatures. It is an ideal weight-saving replacement for reinforced engineering materials in structural applications like side mirror inner parts.

- Good performance to assembly final component
- Good surface aesthetics
- Easy to process
- Weight-saving benefits when compared to PA-GF

The purpose of the pictures on this page are of representational nature only.

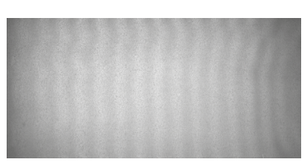
Save costs

First impressions count. The look of a vehicle's exterior plays an outsized role in the overall appraisal of quality and aesthetic appeal, and is thus a primary factor in the purchase decision. This is why a Class-A surface finish is essential for all automotive exterior applications, whether unpainted, painted, or molded-in color.

Unpainted solutions

Flow marks, often referred to as tiger stripes, are frequently occurring surface defects in injection-molded thermoplastic parts. Flow marks negatively impact the visual quality of unpainted parts. Tiers and OEMs are keen to avoid the production and cost issues caused by these defects. To effectively address this problem, Borealis developed a novel test method that simulates and quantifies the occurrence of tiger stripes. We then invested in the development and implementation of in-house equipment for tiger stripe testing at our Innovation Headquarters in Linz, Austria. Another way in which we have enhanced our portfolio of customer solutions is through the launch of our next generation of PP compounds based on the latest Borstar® technology polymers. These offer a premium surface appearance across a very broad processing window.

Flowmark Testing



Tigerstripe Sample

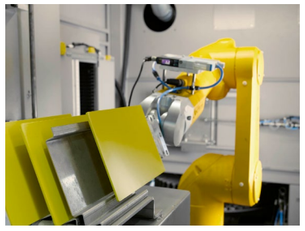
Tigerstripe Sample

Primerless painting

Borealis is supporting the industry move towards primerless paint systems for exterior plastic applications by developing and bringing to market grades that boast improved and longer-lasting paint adhesion performance, optimized off-line painting cycle times, and the subsequent lessening of costs and environmental impact.

Primerless painting involves the reduction of cycle times and system costs through the elimination of production processes, and by switching from a three- to a two-layer painting system. While two-layer painting systems are attractive from a cost standpoint, they are less forgiving when it comes to process fluctuations. Increasingly stringent criteria are being applied to paint adhesion performance. This requires even more exact tailoring and adjusting of the polymer type to match the type of paint system employed, and ensuring a reliable and robust production process.

One way in which Borealis is supporting its customers and OEMs to meet this challenge is by way of a unique R&D initiative in which primerless, two-layer paintable compounds for bumpers and body panels have been developed. Using compounds designed for primerless painting systems enables reduction in cycle times for the part, lower overall system costs, and general sustainability gains.



Fully automated paint robot at Innovation Headquarters in, Linz, Austria.

Mold-in color

Molded-in color solutions enable cost reductions by eliminating painting cycles. Our dedicated color team works closely with pigment suppliers to develop PP compound colors to meet the narrowest color specifications of our customers. We use simulation to test the quality of special color effects before production begins, thus saving time and resources. Our special effect solutions include molded-in aluminium metallic effects for trims and other exterior aesthetic applications.

Innovation Headquarters in, Linz, Austria.

Daplen™ EG107HP

Daplen™ EG107HP is a 15% mineral-filled, elastomer modified high performance PP compound intended for injection molding. It is the ideal universal solution for painted and unpainted bumpers and has been deployed in a broad range of Renault-Nissan models.

- Excellent surface aesthetics
- Very good processing
- System cost optimization

Daplen™ EE112AE

As a mineral-filled, elastomer modified PP compound intended for injection molding, Daplen™ EE112AE is the material of choice for painted bumpers and has been used in a wide range of BMW models.

- Fulfillls most stringent requirements for paint adhesion in primerless systems
- Easy processability
- Lower density
- Low production scrap rate

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Improve sustainability

Whether for interior, exterior, electric powertrain, or UTB: Borealis and Borouge offer a range of more sustainable mineral-filled and glass fiber reinforced solutions. These enable the use of higher amounts of recyclate in the respective part; produce more easily recyclable applications; and enable the substitution of circular materials for conventional polyolefins, thereby enhancing the environmental footprint of the final product.

Borcycle™ EE1212SY

Borcycle™ EE1212SY is a 15% mineral-filled PP compound containing 25% PCR. It is designed to match OEM requirements for painted exterior applications like bumpers or trims.

- 25wt% [25% PCR content by weight]
- Lower CO_2 footprint compared to virgin material solutions
- Robust paintability behavior: fulfillls high Class-A surface aspect after condensed water chamber test

Borcycle™ EG1217SY

Borcycle™ EG1217SY is a 15% mineral-filled PP compound containing 25% PCR. It is designed to match OEM requirements for painted exterior applications like bumpers or trims.

- 25wt% [25% PCR content by weight]
- Lower CO_2 footprint compared to virgin material solutions
- Good paintability behavior and excellent stiffness/impact balance

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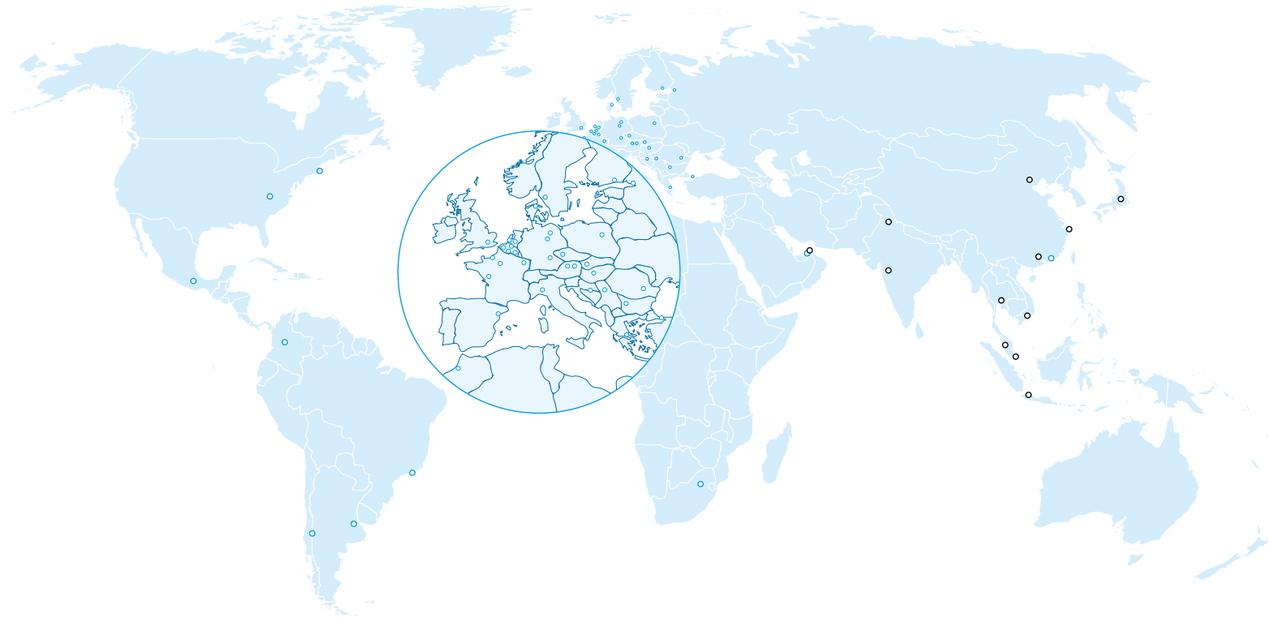
Access Globally

In re-inventing essentials for sustainable living, we are building 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 operations and development centers in the Americas, Europe, Middle East and Asia, we are close to where you are. Offering both, global solutions with aligned performance across regions, and solutions that are tailor made to the specifics of local markets.



○ – Borealis Locations

Head Office Borealis AG
Austria

Customer Service Centers
Austria, Belgium, Brazil, Finland, France, Hungary, Turkey,
United States

Production Plants
Austria, Belgium, Brazil, Finland, France, Germany, Italy, Sweden, The Netherlands, United States

Innovation Centers
Austria, Finland, Sweden

Sales Offices/Representative Office
Argentina, Chile, China, Colombia, Czech Republic, Denmark, France, Hong Kong, Mexico, Morocco, Poland, Russia, South Africa, Spain, Turkey, UAE, UK

Borealis L.A.T Locations
Austria, Bulgaria, Croatia,
Czech Republic, France, Greece, Hungary, Romania, Serbia, Slovakia

Borealis Rosier Locations
Belgium, The Netherlands

○ – Borouge Locations

Head Offices
Singapore, UAE

Innovation/Application Centers
China, UAE

Production Plants
China, UAE

Sales Offices/Representative Offices
China, India, Indonesia, Japan, Singapore, Thailand, UAE, Vietnam

Logistics Hubs
China, Malaysia, Singapore, UAE

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Circular Economy Solutions for Mobility

Join the circular revolution!

We can work together to make mobility more circular. Our ever-expanding range of circular material solutions can help you meet your own sustainability targets – without having to compromise on quality or performance.

Choose material solutions based on circular or renewable feedstock instead of fossil fuel-based feedstock.
As reliable partners, Borealis and Borouge are putting their expertise to work to ensure the secure and ample supply of high-quality circular materials on the market. We are committed to increasing the volume of circular materials and solutions we offer to 600 kilotons (kt) in Europe by 2025, and to 1.8 million kt globally by 2030.

Maintain premium part performance.
Our circular solutions offer high purity standards and are compliant with industry standards with regard to odor, emissions, and fogging. They also consistently deliver when it comes to aesthetics, including paintability, light and dark color matching, Class-A surfaces, and more.

Use less virgin material but still maintain lighter weight.
Lightweight and low-density materials used in a broad spectrum of mobility applications can be made even more sustainable by replacing virgin materials with grades from our Borcycle™ or Bornewables™ portfolios. Our circular solutions can substitute for virgin materials – both polyolefins and non-polyolefins – in any number of high-end automotive parts. In many instances, the foaming process can be used to reduce weight even further.

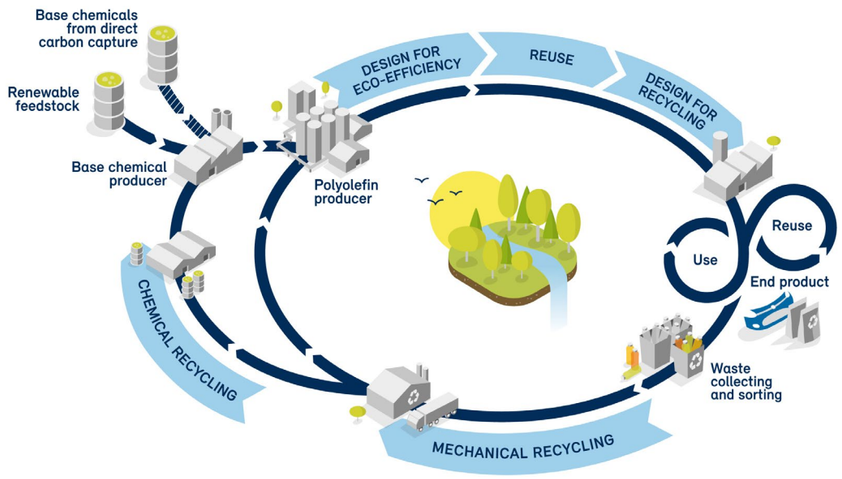
Increase the amount of recycled content in automotive applications.
The transformative Borcycle technology is advancing thanks to our innovation expertise in combination with value chain collaboration. By working together, we are unlocking the potential of recycled material by increasing the percentage of post-consumer recyclate (PCR) content by weight in applications while maintaining stringent performance requirements such as impact/stiffness balance as well as paintability and surface aesthetics.

Facilitate easier recyclability of automotive applications.
Part of our vision for a circular economy of plastics entails the development of PP monomaterials which are more easily recycled, and produce higher quality recyclate. Our innovation efforts are focused on design for recyclability and efficiency. Advanced testing facilities at our Innovation Headquarters in Linz, Austria, offer state-of-the-art modeling and simulation, and can assist you in testing the limits of circular materials.

The Borealis Circular Cascade Model

Polyolefin plastic materials are versatile resources that should be reclaimed and reused. Because plastics are too valuable to ever be wasted, Borealis is committed to driving the transformation to a circular economy of plastics.

The **Borealis circular cascade model** depicts the diverse ways in which plastics can be kept in the loop: from renewable feedstocks to design for eco-efficiency; from design for recycling, to mechanical and chemical recycling – and then back to renewable feedstocks to close the circle. We use our polyolefins expertise to develop and implement innovative circular economy solutions with added value for our customers in all industry sectors, including mobility.



Borcycle™ - Our technology for recycling polyolefin waste into new plastics

Borcycle™ is one example of how we are accelerating towards circularity. This evolving technology uses recycling processes to transform polyolefins-based, post-consumer waste streams into new and value-adding solutions for demanding applications. **Borcycle™ M** grades are designed to fulfilll the most stringent requirements, from stiffness/impact balance to processability, from paintability to good surface aesthetics. In short: our Borcycle™ M portfolio of mechanically recycled grades offers high material quality, but with a lower carbon footprint.

The virgin-level grades found in the **Borcycle™ C** family of chemically recycled solutions are fit for the most demanding applications, including food-contact and healthcare. Borcycle C grades are drop-in solutions and ISCC Plus certified. This means that the origins of these circular materials can be tracked and traced along the entire supply chain.

The Bornewables™ - Premium polyolefin products manufactured with renewable feedstocks

The **Bornewables™** portfolio of circular polyolefin products is another way in which Borealis is providing its customers and partners ever more sustainable alternatives to fossil fuel-based polyolefins. Bornewables grades are made of renewable-based feedstock derived entirely from waste and residue streams such as used cooking and vegetable oil (and thus not in competition with the food chain). The ISCC PLUS accreditation of Bornewables grades is based on the mass balance method that allows the customer to track and quantify the effective renewable content at each manufacturing step. By using Bornewables grades, our customers can replace fossil fuel-based feedstock with an identical volume of sustainably sourced, renewable feedstock – without extra switching costs, and while maintaining the same high application quality.

Borealis & Mobility

Materials for Exterior Solutions

Grade	Density [kg/m³] ISO 1183	MFR 230 °C/2.16 kg [g/10 min] ISO 1133	Flexural modulus [MPa] ISO 178	Tensile strength (50 mm/min) ISO 527-2	Impact, charpy notched 23 °C [kJ/m²] ISO 179/1eA	Impact, charpy notched −20 °C [kJ/m²] ISO 179/1eA	HDT B (0.45 MPa) [°C]	Typical applications
Performance masterbatches (to be used with dilution polymers for open compound solutions)								
WN503AE	1340	3	-	-	-	-	-	Bumpers, exterior trims
WN505AE	1340	3	-	-	-	-	-	Bumpers, exterior trims
WN540AE	1340	20	-	-	-	-	-	Bumpers, exterior trims
WG068AE	950	110	-	-	-	-	-	additive MB for D-LFT process
Polypropylene copolymer high impact								
Daplen™ EE002AE	905	11	1000	20	65	9	76	Bumper, exterior trims
Daplen™ EF015AE	895	18	800	19	35	7	68	Bumper (dilution polymer for performance masterbatch)
Daplen™ EE050AE	905	11	950	20	60	10	75	Bumper (dilution polymer for performance masterbatch)
Polypropylene copolymer mineral filled								
ME310AE	1130	14	2300	19	6	2	120	Wheel arch trims, exterior trims, mud guards
Polypropylene homopolymer mineral filled								
MS64T20	1070	22.5	3400		2.5	1.2	125	Cowl vent grill, exterior trims
Performance masterbatches (to be used with dilution polymers for open compound solutions)								
Fibremod™ GB317SF	1120	5	6300	105	10	9	160	Exterior applications in building, construction and automotive
Borcycle™ M GD3600SY	1140	6.5	5600	75	8.5	-		Bumper brackets, head lamp housing, center console carrier
Fibremod™ GE309SF	1150	14	7000	95	8.5	6	148	Outside rear view mirror, structural aesthetic parts
Fibremod™ GE409SF	1200	14	9850	100	8	9	163	Outside rear view mirror, structural aesthetic parts
Fibremod™ GB417SF	1230	1.4	9000		11	10		Exterior applications in building, construction and automotive

Grade	Density [kg/m³] ISO 1183	MFR 230 °C/2.16 kg [g/10 min] ISO 1133	Flexural modulus [MPa] ISO 178	Tensile strength (50 mm/min) ISO 527-2	Impact, charpy notched 23 °C [kJ/m²] ISO 179/1eA	Impact, charpy notched −20 °C [kJ/m²] ISO 179/1eA	HDT B (0.45 MPa) [°C]	Typical applications
Performance masterbatches (to be used with dilution polymers for open compound solutions)								
Daplen™ EF155AE	950	18	1400	18	35	5	90	Bumper, exterior trims
Daplen™ EE103AE	950	12	1400	19	50	7	92	Bumper, exterior trims
Daplen™ EF005AE	960	25	1070	16	52	6	85	Bumper, exterior trims, spoilers
Daplen™ EH104AE	970	40	1200	16	38	5.5	80	Bumper, exterior trims
Daplen™ EH119HP	970	33	1450	17	42	10	80	Bumper, exterior trims
Daplen™ EE112AE	980	14	1500	18	65	12	95	Bumper, exterior trims
Daplen™ EF119AE	990	23	1750	19	55	7	101	Bumper, exterior trims
Daplen™ EF120AE	990	23	1750	19	55	7	101	Bumper, exterior trims
Borcycle™ M EE1212SY	995	10	1500	-	50	4	-	Bumper, exterior trims
Daplen™ EG107HP	995	22	1750	20	40	6	100	Body panels, rocker panels, front grills
Borcycle™ M EG1217SY	1000	25	1550	-	40	6.5	-	Bumper, exterior trims
Daplen™ EF150HP	1010	22	1900	23	29	4.5	105	Body panels, rocker panels, bumpers, trims, front grills
Daplen™ EG134AE	1010	32	1620	18	40	4.5	100	Bumper, exterior trims, front grills, rocker panels
Daplen™ EG235AE	1040	30	2700	26	4.5	2.3	122	Exterior trims, mirror caps
Daplen™ EJ107AE	1020	42	1550	18	28	7	90	Exterior trims, metallic effect parts
Daplen™ EH228AE	1040	40	1500	17	22	3	100	Exterior trims, rocker panels, spoilers
Daplen™ EF209AE	1040	22	1700	17	60	6.5	90	Bumper, exterior trims
Daplen™ EH227AE	1050	40	1550	16	36	6	86	Exterior trims, rocker panels
Daplen™ EF109AE	1050	20	1500	16	30	5	90	Bumper, exterior trims, spoilers
Daplen™ EE209AE	1040	13	1500	16	65	8	93	Bumper, exterior trims
Daplen™ EG274AE	1080	24	1600	17	30	-	95	Garnish, wheel arch trim, rocker panel
Daplen™ EH217AE	1080	35	1900	17	38	4.5	-	Body panels, spoilers, rocker panels
Daplen™ EH340AE	1100	43	1900	-	12	2.9	105	Exterior trims, rocker panels, front grills

Borealis at a Glance

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 polymers 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.

Worldwide
Operating on five continents in 120 countries, with head office in Vienna, Austria

Key Financial Figures
In 2022, total sales of EUR 12,342 million and a net profit of EUR 1,396 million

Market Position
Ranked 2nd among polyolefin producers in Europe and 8th worldwide

Mechanical Recyling
Three polyolefin recycling locations in Europe

Employees
Around 6900 employees (full-time equivalents)

R&D
Record-breaking 133 priority patents filed in Austria in 2021

Ownership Structure
OMV holds 75% and Mubadala, through its holding company, 25%

Join Ventures
Borouge (with ADNOC, the Abu Dhabi National Oil Company, in Abu Dhabi, UAE) and Bayport Polymers (with TotalEnergies in Texas, US)

Business Areas
Production and distribution of polyolefins, base chemicals, and fertilizers

In re-inventing essentials for sustainable living, we are building 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.

In affirming our aim to be a global leader in advanced and sustainable chemicals and material solutions, the Borealis Strategy 2030 puts sustainability at the core of all our current and future operations. We have set ambitious sustainability targets for our Polyolefins and Hydrocarbons businesses with regard to greenhouse gas emissions, energy use, flaring, and circular economy products and solutions. Borealis is exploring the use of carbon capture technologies for base chemicals production in Europe, and has also formed a partnership, C2PAT, with Lafarge, OMB and VERBUND to plan and construct a full-scale plant in Austria for carbon capture and processing.

As a responsible petrochemicals company, Borouge believes that achieving a zero-waste circular economy of plastics calls for strong and concerted action on the part of the industry, governments, consumers, and society. For more information on how Borouge is accelerating the transition to the circular economy, go to: Borouge Sustainability Circular Economy.

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About Borealis Borealis is one of the world's leading providers of advanced and circular polyolefin solutions and a European market leader in base chemicals, fertilizers and the mechanical recycling of plastics. We leverage our polymers expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries. In re-inventing for more sustainable living, we build on our commitment to safety, our people and excellence as we accelerate the transformation to a circular economy and expand our geographical footprint.

With head offices in Vienna, Austria, Borealis employs 6,900 employees and operates in over 120 countries. In 2021, Borealis generated total sales and other income of EUR 10,153 million and a net profit of EUR 1,396 million. OMV, the Austria-based international oil and gas company, owns 75% of Borealis, 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

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No liability can be accepted in respect of the use of Borealis and Borouge products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third-party materials.

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