

A person with curly hair, wearing a yellow sweater, is shown in profile from the side, plugging a green charging cable into the charging port of a white electric car. The scene is set against a bright sunset or sunrise, with the sun low on the horizon, creating a warm, golden glow. The background is slightly blurred, showing some trees and a clear sky. The overall mood is serene and modern.

Stelora™

**Powerful
performance from
a new class of
engineering polymer**

Keep Discovering

 **BOREALIS**

A new class of sustainable engineering polymer designed to elevate the performance of your existing solutions.

Offering increased strength, durability and a step change in heat-resistance capability, Stelora™ ensures your products stand up to the most demanding applications, while enhanced efficiency supports you to meet your sustainability ambitions.

A state-of-the-art solution

Stelora is the outcome of an exclusive collaboration between Borealis and TOPAS Advanced Polymers, combining the benefits of cyclic olefin copolymers (COCs) with polypropylene (PP).

The brand-new, state-of-the-art ethylene-propylene-norbornene (EPN) material solution is suitable for a wide range of technically advanced applications for which engineering polymers are used today as an alternative, primarily used in e-mobility and renewable energy generation.

Enhanced Performance

- Very high purity for exceptional performance and durability.
- A step change in heat resistance, closing the gap between conventional polymers and high-temperature plastics.
- Excellent processability using existing equipment, infrastructure and assets
- Superior electrical properties at high temperatures
- Increased efficiency



Enabling the renewable Energy Transition

The renewable energy transition is an important step in efforts to avoid the severe impacts of the climate crisis. This shift, from fossil fuels to renewable energy, is key to both the United Nations Sustainable Development Goals and the European Green Deal.

At Borealis, we're committed to supporting these efforts, so we're continually innovating to create the next generation of sustainable solutions.

A new class of engineering polymer, Stelora will unlock progress for the renewable energy sector and increase efficiency.



A Circular Way

Our vision is a world in which high-quality plastic products are kept in circulation in an eco-efficient way – a circular way.

We're committed to leading this change, supporting our customers to realise their sustainability ambitions by transforming the plastics life cycle.

With Stelora, we mark another step on this journey: this unique EPN solution is produced using renewable feedstock, creating value out of waste and helping to build a brighter future for our planet.

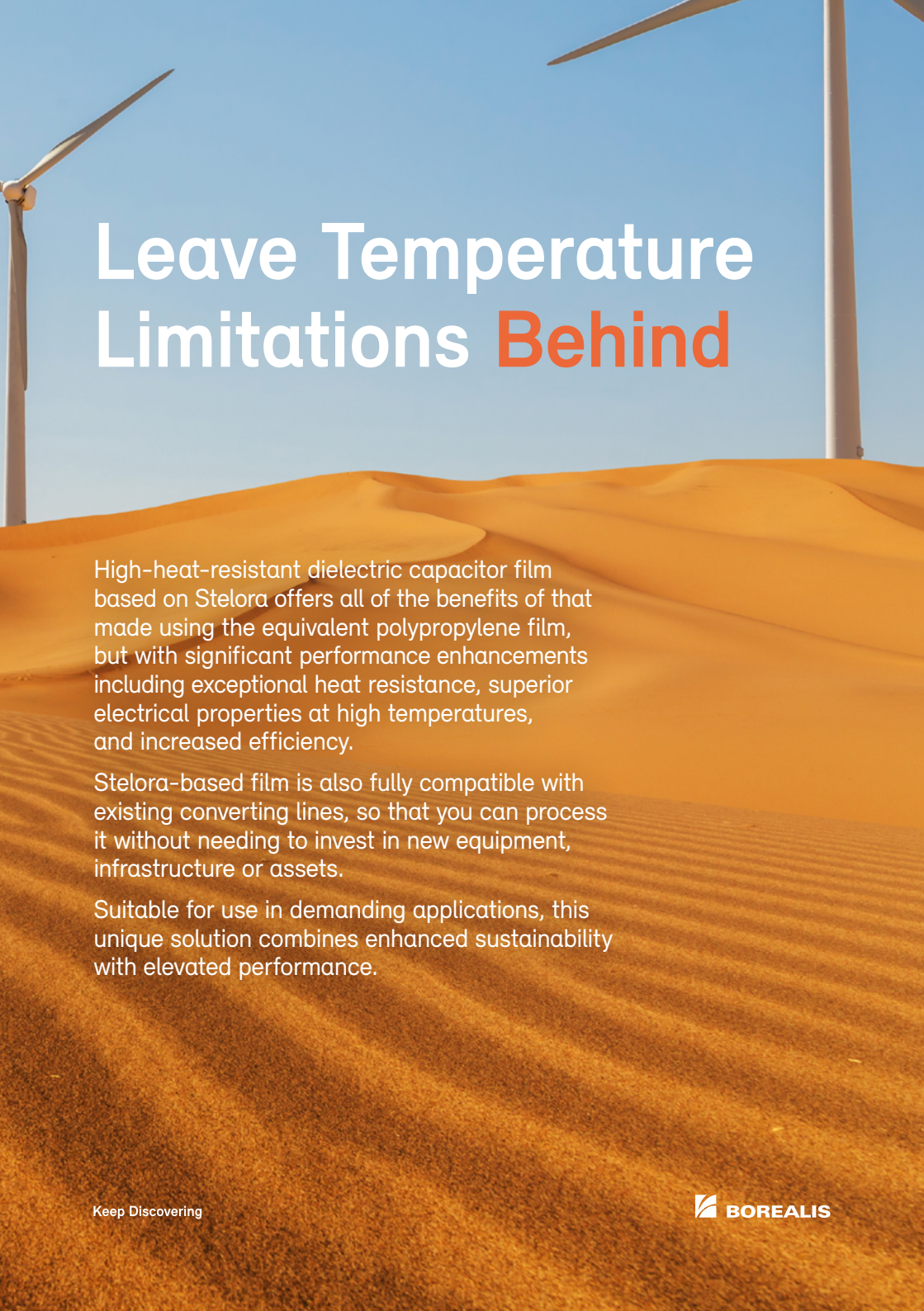
EverMinds™

Accelerating Action on Circularity

Everminds™ is a platform for accelerating action on circularity.

To harness knowledge and ideas from across our industry to create bold new solutions, and unlock rapid progress.

Be a part of the circular revolution for plastic. Be a part of EverMinds™.

A background image showing several wind turbines in a vast, orange-hued desert landscape under a clear blue sky. The sand dunes are in the foreground, and the turbines are scattered across the horizon.

Leave Temperature Limitations **Behind**

High-heat-resistant dielectric capacitor film based on Stelora offers all of the benefits of that made using the equivalent polypropylene film, but with significant performance enhancements including exceptional heat resistance, superior electrical properties at high temperatures, and increased efficiency.

Stelora-based film is also fully compatible with existing converting lines, so that you can process it without needing to invest in new equipment, infrastructure or assets.

Suitable for use in demanding applications, this unique solution combines enhanced sustainability with elevated performance.

Benefits of increased heat resistance:



Power Generators

Reduced degradation extends the lifespan of power generators, including offshore wind installations.



Inverters

Less space is required for cooling, reducing the size and construction cost of inverters.



Electric Vehicles

Smaller and more energy efficient final products that use transmitted energy can be produced.

Pushing the limits of polymer applications

Stelora's unique properties place it at the forefront of polyolefin technology, breaking new ground for polymer applications, and helping to preserve the precious and finite resources of our planet.

We want our customers across every sector to benefit from Stelora's powerful performance and enhanced sustainability advantages, so we are working to validate an ever-wider range of high-performance applications.

For more information:
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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 7,600 employees and operate in over 120 countries. In 2022, we generated a net profit of EUR 2.1 billion. OMV, the Austria-based international oil and gas company, owns 75% of our shares, while the remaining 25% is owned by Abu Dhabi National Oil Company, or ADNOC, based in the United Arab Emirates (UAE). We supply services and products to customers around the globe through Borealis and two important joint ventures: Borouge (with ADNOC, headquartered in the UAE); and Baystar™ (with TotalEnergies, based in the US).
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