

Sustainability@FoamPartner

# Innovative Product Solutions With Sustainable Value



ecovative

# Sustainable Solutions With Added-Value

Anyone who wants to help shape the future must think in terms of conserving resources and act in a socially responsible manner. This requires solutions that are socially, ecologically and economically justifiable for tomorrow's world. We are facing up to these challenges and, as one of the leading foam manufacturers, we are developing products and solutions with particularly

sustainable and economic added value in line with our promise **"Best in Foam - Sustainable through Innovation"**. Especially in the fields of electric mobility, climate protection and health and wellbeing. Our sustainability principle PLANET, PEOPLE & PERFORMANCE shows us the way.

## PLANET



### PLANET

We contribute to the **conservation of resources** by using material-efficient and durable products as well as foams based on sustainable or recycled raw materials. And we contribute to **climate protection** with environmentally friendly products without greenhouse gases and energy-saving products to reduce our CO<sub>2</sub> footprint.

## PEOPLE



### PEOPLE

We take care to **protect health** and enhance **wellbeing**. Improve the indoor climate with low-emission and low-odour products. Enable healthy sleep with high-quality comfort foams. Ensure compliance with the highest safety standards by using low-emission foams of certified quality and flame-retardant products in accordance with the highest fire protection regulations.

## PERFORMANCE



### PERFORMANCE

We ensure **optimized functionality** in the application. Through products with improved performance at reduced material usage or lower volume weight. With multifunctional foams for less complexity in new environmentally friendly technologies. The easy handling of our products speeds up processing and our compressible foams reduce transport volumes. As a result, **operating processes** can be made more efficient.

In this way, we create the best possible conditions for developing sustainable, innovative and industry leading solutions for industry and trade. Our product solutions with particular sustainable and economic value are distinguished by the company's proprietary Ecovative™ label.





# Products Awarded With the Ecovative-Label



## Automotive Rolls

OBoNature™ Family

Sustainable Foams for the Mobility of Tomorrow

OBoSky® Range

Optimum Processing with Low-Emission Headliner Foams



## Acoustic & Thermal Solutions

RegiSeal® Acoustic SMS

Less Complexity for Automotive Interior Components

RegiSeal® e-Thermo

Mileage Range Increase of Electric Cars



## Systems

OBoSonic® B 140

Next Generation of Automotive NVH-Solutions

Bolasto® W 800

Faster Production of Low-Emission Steering Wheels

ComfoPUR® W 50

Meeting the Highest Fire Protection in Mobility Comfort



## Specialties

RegiSeal® TN & Aqua

Sustained Protection with Low-Emission Sealings

B 2240 Eco

Sustainable Packaging for a Reliable Product Protection

CelluPlus™

Long-lasting Cleaning Comfort



## Living & Care

EvoPore™ HRC & VHRC

Premium Sleeping Comfort with Improved CO<sub>2</sub> Footprint



## OBoNature™ Family Sustainable Foams for the Mobility of Tomorrow

Under the OBoNature™ family name, we offer decorative PUR-foams based on sustainable raw materials for use in vehicle interiors, delivering performance benefits in the different application such as headliner, seating and door trim.



OBoSky® Nature 3540 T is the product of choice for headliners, OBoTrim™ 3540 T Nature for door panels and OBoSeat® Nature 3540 T for car seats. All products have very fine pores and show a homogenous cell structure and uniform color. The foams are characterized by a pronounced elastic behavior due to its optimized elongation at break and tensile strength.

### PLANET



#### Resource conservation

- Use of sustainable raw materials derived from by-products of the chemical industry. Sustainable share in foam > 13%
- High material efficiency through prolonged service life thanks to excellent hydrolytic stability and material resistance
- Our 120 m block technology minimizes adhesive seams by 50%

### PEOPLE



#### Health protection

- Very low in odor and emissions (VOC, FOG) in accordance with measurement methods VDA 278 and VDA 270

#### People safety

- Use of halogen-free flame-retardant additives to ensure passenger safety according to FMVSS 302

### PERFORMANCE



#### Optimized functionality

- Excellent thermoformability even in critical radii
- Optimum surface results without orange peel effects
- Improved adhesion at reduced material thickness

#### Operational efficiency

- Processing at > 10% faster lamination speeds
- Reducing material loss during flame lamination by more than 5%

**Learn more** - Discover our [brochure](#) "OBoNature™ - Sustainable Foams for the Mobility of Tomorrow" for more information or visit the Automotive Rolls section our [website](#).

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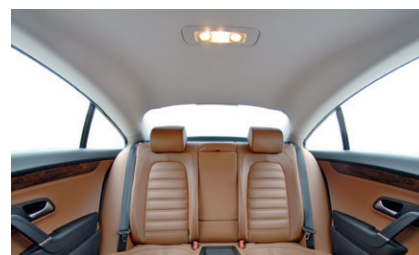


The Ecovative label stands for our promise "Best in Foam - Sustainable through Innovation" and is our award for innovative product solutions with special sustainable and economic value.



## OBoSky® Range Optimum Processing with Low-Emission Headliner Foams

The decorative foams of the OBoSky® range for vehicle interiors have been specifically developed for automotive headliners. The products are manufactured using a novel, patented prepolymer technology that delivers improved performance in lamination processes.



OBoSky® foams combine the advantages of ester-based polyurethane foams with the properties of ether-based materials. They have a very homogeneous foam structure with fine cells, offer a good hydrolytic stability and are very low in emissions. The OBoSky® range comprises 6 different grades in a density range from 29 to 42 kg/m<sup>3</sup>.

### PLANET



#### Resource conservation

- High material efficiency through prolonged service life thanks to excellent hydrolytic stability and material resistance
- Our 120 m block technology minimizes adhesive seams by 50%

### PEOPLE



#### Health protection

- Very low in odor and emissions (VOC, FOG) in accordance with measurement methods VDA 278 and VDA 270

#### People safety

- Use of halogen-free flame-retardant additives to ensure passenger safety according to FMVSS 302

### PERFORMANCE



#### Optimized functionality

- Excellent thermoformability even in critical radii
- Optimum surface results without orange peel effects

#### Operational efficiency

- Simple processing thanks to good flame and adhesive lamination properties

**Learn more** - Discover our [brochure](#) "OBoSky® - Optimum Processing with Low-Emission Headliner Foams" for more information or visit the automotive headliner section our [website](#).

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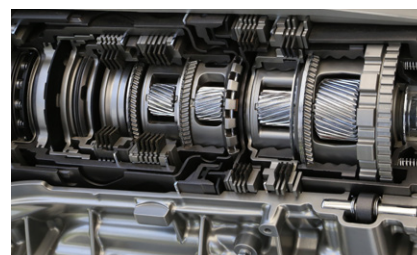
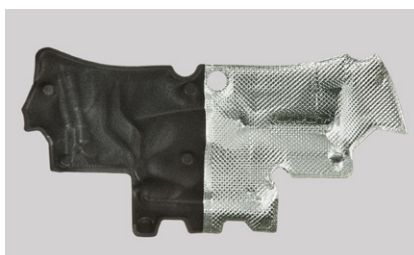


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## RegiSeal® Acoustic SMS Less Complexity for Automotive Interior Components

RegiSeal® Acoustic SMS is a finished component for acoustic sealing in vehicle interiors, based on a novel prepolymer foam. Designed as an ultra-light spring-mass system in a single component, it is an attractive alternative to conventional 2-component systems.



RegiSeal® Acoustic SMS combines efficient acoustic and vibration solutions and is recommended for applications wherever structure-borne and airborne noise has to be reduced, e.g. in gear shifting or in the dash inner encapsulation which is located between the engine area and the vehicle interior.

### PLANET



#### Resource conservation

- Less complexity thanks to multifunctional performance in one material
- 50% lighter than a conventional, two-component spring-mass system
- High material efficiency through prolonged service life thanks to excellent hydrolytic stability and material resistance

### PEOPLE



#### Health protection

- Improved air quality by highly reduced emission (VOC, FOG) and low odor

#### People safety

- Ensuring passenger safety through flame resistance according to FMVSS 302

### PERFORMANCE



#### Optimized functionality

- Comparable acoustic performance than standard systems Better cost-performance value than standard spring-mass systems

#### Operational efficiency

- Easy handling, as the material is very supple and requires 40% less compression force during installation

**Learn more** - Visit our [website](#) to learn more about acoustic & thermal solutions for the automotive industry.

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## RegiSeal® e-Thermo Mileage Range Increase of Electric Cars

RegiSeal® e-Thermo is a thermal package especially recommended for electric cars. Equipping vehicle interior including headliner, door panels and parcel shelf with this innovative PUR foam leads to a significantly improved insulation and a positive effect on battery consumption.



The acoustic and thermal performance of the RegiSeal® e-Thermo package was evaluated in theoretical as well as practical tests under real road conditions in a re-equipped BMW i3. Initial measurements at a standstill show that the electric car has up to 5 % more charging capacity after 4 hours than the comparable BMW i3 with standard equipment.

### PLANET



#### Resource conservation

- High material efficiency through prolonged service life thanks to excellent hydrolytic stability and material resistance
- 50% lighter than original car parts

### PEOPLE



#### Health protection

- Improved air quality by highly reduced emission (VOC, FOG) and low odor

#### People safety

- Ensuring passenger safety through flame resistance according to FMVSS 302

### PERFORMANCE



#### Optimized functionality

- Improved insulation is reducing the battery consumption by up to 5% which leads to increased mileage range

#### Operational efficiency

- Excellent processability with other materials used in vehicles interiors, such as textiles and nonwovens

**Learn more** - Visit our [website](#) to learn more about acoustic & thermal solutions for the automotive industry.

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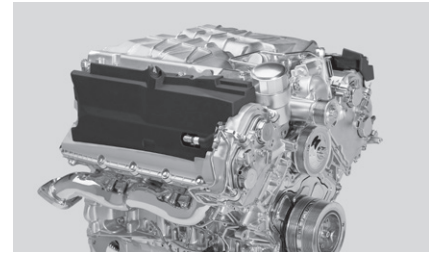
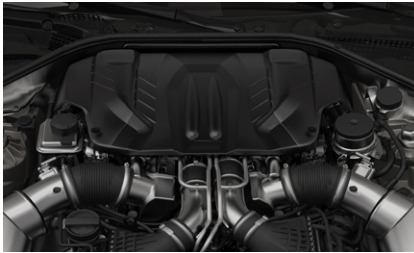
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## OBoSonic® B 140 Next Generation of Automotive NVH-Solutions

OBoSonic® B 140 is a new fluorocarbon-free PUR integral skin foam system for acoustic elements in automotive exteriors, especially for the engine compartment, and is therefore ideally suited for engine covers, injector and rail encapsulation.



Molded foam parts made from OBoSonic® B 140 combine optimal acoustic and thermal properties along with a cellular core and a closed skin formation for high-quality design surfaces – naturally, with corresponding abrasion and media resistance.

### PLANET



#### Resource conservation

- Suitable for lightweight car components helping to improve fuel/battery capacity
- High material efficiency due to excellent material load capacity, temperature and media resistance

#### Climate protection

- Avoidance of greenhouse gases by using water as blowing agent for PUR system, being a sustainable alternative to harmful HFC-fluorocarbons

### PEOPLE



#### Health protection

- Improved air quality by reduced emissions (FOG) and low odor

#### People safety

- Ensuring highest passenger safety through reinforced, halogen-free flame-retardant solutions meeting flammability standards according to FMVSS 302, DBL 5307, GMW3232, SAE J369

### PERFORMANCE



#### Optimized functionality

- Excellent acoustic absorption and thermal insulation properties while achieving high-quality design surfaces

#### Operational efficiency

- Reaction behavior optimally adapted to the individual customer's production process

**Learn more** - Visit our [website](#) to learn more about our OBoSonic® acoustic solutions based on integral skin foam, flexible and semi-rigid foam systems.

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## Bolasto® W 800

### Faster production of low-emission steering wheels

Bolasto® W 800 is a new fluorocarbon-free PUR integral skin foam system for automotive applications, which is particularly recommended for low-emission lightweight steering wheels. Based on an innovative prepolymer technology, the system offers good mechanical properties combined with faster demolding time, thus saving valuable processing time in production.



The characteristic property of molded parts based on Bolasto® W 800 is a highly flexible and tear-resistant outer shell with a softer, cellular core. This enables the production of durable steering wheels with high-quality design surfaces.

#### PLANET



##### Resource conservation

- Suitable for lightweight steering wheels with a density of 350 kg/m<sup>3</sup>, as a contribution to reducing vehicle weight
- High material efficiency prolonging service life thanks to excellent material resistance

##### Climate protection

- Avoidance of greenhouse gases by using water as blowing agent for PUR system

#### PEOPLE



##### Health protection

- Improved air quality by highly reduced emission (VOC, FOG) and low odor
- Scavenging technology to eliminate acetaldehyde and formaldehyde residues available

##### People safety

- Ensuring passenger safety through flame resistance according to FMVSS 302

#### PERFORMANCE



##### Optimized functionality

- Good mechanical properties, e.g. abrasion resistance, as well as resilience against paint flaking/peeling during mold coating ensure high-quality design surfaces

##### Operational efficiency

- Faster processing thanks to demolding times below 70 sec
- Reaction behavior optimally adapted to the individual customer's production process

**Learn more** - Visit our [website](#) to learn more about our Bolasto® integral skin foam systems.

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## ComfoPUR® W Range

### Meeting the Highest Fire Protection in Mobility Comfort

The ComfoPUR® W range comprises different types of fluorocarbon-free PUR flexible foam systems that meet the most stringent fire protection standards for comfort products, such as seats, child car seats or headrests used in automotive, rail and aviation industries.



The ComfoPUR® W range have been specifically developed to provide excellent and individually adjustable elasticity as well as good climate control in lightweight comfort seats that have to withstand constant intensive use while at the same time ensuring improved air quality through highly reduced odor and emission levels.

#### PLANET



##### Resource conservation

- Suitable for comfort seats with reduced densities contributing to vehicle weight reduction
- High material efficiency prolonging service life thanks to excellent material resistance
- The use of up to 30% renewable polyol is possible without compromising performance

##### Climate protection

- Avoidance of greenhouse gases by using water as blowing agent for PUR system

#### PEOPLE



##### Health protection

- Improved air quality by highly reduced emission (VOC, FOG) and low odor

##### People safety

- Ensuring highest passenger safety by meeting most stringent fire protection norms for mobility applications: aviation (FAR25.853/855), rail (DIN5510-2, EN 45545) and automotive (ECE R118, FMVSS 302)

#### PERFORMANCE



##### Optimized functionality

- High stability and good resilience ensure long-lasting comfort even under severe continuous use

##### Operational efficiency

- Reaction behavior optimally adapted to the individual customer's production process

**Learn more** - Visit our [website](#) to learn more about our ComfoPUR® flexible foam systems.

#### Contact us

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## RegiSeal® TN & Aqua Sustained Protection With Low-Emission Sealing Systems

The new generation of RegiSeal® products meets the highest demands for efficient and durable sealing systems that are used in a wide variety of devices and components in the automotive, construction, appliance and machinery industries.



RegiSeal® TN & Aqua products are polyether based PUR foams with very fine pores and a closed cell foam structure. They are characterized by an extremely supple texture. The sealing foams are therefore not only air and watertight and offer protection against dirt, dust, sound, vibration and heat, but are also easily compressible as well. They are furthermore hydrolytically stable and durable.

### PLANET



#### Resource conservation

- High material efficiency saving 40% material by achieving sealing performance at reduced density of 33 kg/m<sup>3</sup> while offering prolonged service life due to excellent hydrolytic stability and material resistance according to DBL 5450

#### Climate protection

- Suitable for energy-efficient heat pumps/ condensing boilers with reduced CO<sub>2</sub> emissions

### PEOPLE



#### Health protection

- Improved air quality by highly reduced emissions. Practically odorless and emission-free thanks to low VOC values according to VDA 278

#### People safety

- Efficient fire protection, by being self-extinguishing according to FMVSS 302

### PERFORMANCE



#### Optimized functionality

- Outstanding sealing performance, being extremely air- and watertight, providing sustained protection against liquids and volatile compounds, as well as dirt, dust, sound, vibration and heat

#### Operational efficiency

- RegiSeal® Aqua is watertight in accordance with the Denso test. Outstanding performance with reduced compression or rather less material thickness (24h at only 20% compression)

**Learn more** - Discover our [brochure](#) "RegiSeal® - Efficient and Sustained Protection With Low-Emission Sealing Systems" for more information or visit the sealing section our [website](#).

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## B 2240 Eco Sustainable Packaging for a Reliable Product Protection

B 2240 Eco is a novel PUR foam based on sustainable raw materials, for use in numerous packaging applications, ranging from load carriers, case inserts to transport packaging for sensitive and valuable goods. Customized packaging solutions can be developed on request.



B 2240 Eco is a fine pored foam in attractive anthracite color, that combines sustainability benefits with performance advantages in one single material. The foam can be processed with extreme precision into any shape & form according to your needs.

### PLANET



#### Resource conservation

- Use of sustainable raw materials derived from by-products of the chemical industry. Sustainable share in foam > 12%
- High material efficiency through prolonged service life thanks to excellent hydrolytic stability and material resistance

### PEOPLE



#### Health protection

- Improved air quality by highly reduced emissions. Practically odorless and emission-free thanks to very low VOC values

### PERFORMANCE



#### Optimized functionality

- Excellent protection for packaged goods thanks to high material resilience against impact, heat and moisture, even when subjected to frequent or heavy use

#### Operational efficiency

- Optimized processing properties that enable complex shapes and cuts at millimeter intervals, making it the ideal material for customized packaging solutions

**Learn more** - Discover our [brochure](#) "B 2240 Eco - Sustainable Packaging Solution With Reliable Product Protection" or visit the packaging section of our [website](#).

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## CelluPlus™ Long-lasting Cleaning Comfort

CelluPlus™ is a multi-purpose sponge based on an innovative polyester-PUR foam technology that makes cleaning easier and more efficient. It is suitable for a wide range of household applications, including the cleaning of surfaces in the kitchen, bathroom and furniture.



This novel foam is an ideal alternative to cellulose, as it offers hydrophilic properties for excellent water absorption and dry wiping & cleaning behavior, similar to a cellulose sponge, but with a much higher durability as it does not disintegrate with time.

### PLANET



#### Resource conservation

- High material efficiency through longer lifetime due to improved material resistance, thus the product does not crumble or disintegrate with time

### PEOPLE



#### Health protection

- Prevention of mold growth as the foam does not trap residue and particles. This helps to avoid unpleasant smell

#### People safety

- Hygiene in the kitchen is of central importance to prevent food-borne infections. The sponge can be machine washed at up to 75 °C, which kills harmful germs and bacteria

### PERFORMANCE



#### Optimized functionality

- Excellent water absorption thanks to the hydrophilic material properties while providing perfect wiping and cleaning behavior similar to cellulose sponges

**Learn more** - Discover our brochure "CelluPlus™ - Comfortable Cleaning in One Wipe With Innovative Janitorial Sponge" or visit the sponge section of our [website](#).

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## EvoPore™ HRC & VHRC Premium Sleeping Comfort with Improved CO<sub>2</sub> Footprint

EvoPore™ HRC & VHRC are the latest generation of comfort foams that are manufactured in a more sustainable and responsible way, while providing maximum functionality and durability with less raw material use. Recommended for mattress cores, mattress liners, comfort pads and health care products.



VHRC stands for Very High Resilience Climate. The products of the EvoPore™ HRC & VHRC family are highly elastic mattress foams, offering excellent elasticity and comfort properties. Conventional mattress foams can lose their firmness when exposed to heat and moisture. EvoPore™ HRC & VHRC products provide constant stability under demanding climatic conditions throughout the night and for years to come.

### PLANET



#### Resource conservation

- Higher material efficiency due to improved performance at 30% less raw material consumption
- Prolonged durability due to superior climate consistency

#### Climate protection

- Improved CO<sub>2</sub> footprint through less raw materials, environmentally friendly production process, longer service life and sustainable logistics

### PEOPLE



#### Health protection

- Greater wellbeing through optimal relaxation and regeneration during sleep thanks to high level of adaptability and constant support
- Suitable for preventive products that promote changes in sleeping and lying positions

#### People safety

- Certified product safety according to STANDARD 100 by OEKO-TEX®, Class 1

### PERFORMANCE



#### Optimized functionality

- Excellent support and pressure distribution with lower density and up to 40 % more stability than mattresses with same density in demanding climatic conditions

**Learn more** - Discover our brochures “EvoPore™ VHRC - Royal Sleeping Comfort in a New Dimension” and “EvoPore™ HRC - Excellent Sleeping Comfort Throughout the Night for Years to Come” for more information or visit the Living & Care section on our [website](#).

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### **Have we attracted your interest?**

Further information on our comprehensive sustainability strategy can be discovered in a detailed brochure, which you can download from our website:  
[www.foampartner.com/sustainability](http://www.foampartner.com/sustainability)



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