

SUSTAINABILITY REPORT

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Sustainability Report as of 2020

As of: 2021

1874 Founded as a tannery

1959 Storopack Hans Reichenecker GmbH + Co. is founded; Production of technical molded parts made from Styropor®

70 locations

564 million Euros in revenue

2,490 employees



FAMILY-RUN COMPANY MEANS COMBINING TRADITION AND INNOVATION.

Storopack is the leading supplier and service provider for flexible and customized protective packaging as well as an expert for technical molded parts.

As a globally operating family company with 2,470 employees, tradition and innovation form the basis for our success. We have been working closely with our customers for over 60 years to optimally adapt their protective packaging to a wide variety of needs and to support them in the long term. With certified production facilities and locations around the world, Storopack has a decentralized structure and is always in close proximity to the customer. 2,470 employees work at 69 locations in 19 countries around the world.

STATEMENT FROM THE CHAIRMAN
OF THE MANAGEMENT BOARD

OUR COMMITMENT TO SUSTAINABILITY



Sustainability encompasses many dimensions. This report explains exclusively Storopack's sustainability activities with regard to ecology. To offer the perfect protective packaging that optimally protects the product to be packaged is our claim and our most important goal. Our mission, "Perfect Protective Packaging", is also our top priority in terms of sustainability. That's because whenever a product is damaged in transit, resources are consumed unnecessarily due to new production and additional transport, thus harming the environment. Nevertheless, protective packaging must be developed and produced as resource-efficiently as possible.

In 2019, more than 30 percent of our products manufactured in-house were made from renewable or recycled materials. By 2025 we will increase this share to over 50 percent.

Despite our broad portfolio of products made with renewable and recycled raw materials, we seek to promote an objective and fact-based assessment of plastics. In terms of resource input and CO₂ emissions, these often represent the most environmentally friendly

"As a family-run global company, we take sustainability seriously and therefore attach great importance to maintaining and improving quality of life for future generations."

HERMANN REICHENECKER

material for protective packaging, especially when these materials are already made from recycled materials. That is why it is so important to us to promote circular economies around the world – and therefore significantly boost the recycling rate.

Pollution of the seas with plastic waste is a major problem and we need to work together to solve it. Plastic doesn't belong in the sea, but instead must be recycled or at least used for energy generation. Unfortunately, the primary countries responsible for pollution rarely have functioning disposal and recycling systems. Here, assistance has to be provided to ensure that the materials are reused appropriately, ideally by means of recycling. For this reason, we support initiatives such as Big Blue Ocean Cleanup and campaign as a member of the Alliance to End Plastic Waste.

The equipment at our locations also plays a major role when it comes to protecting resources, as sustainability starts long before we use raw materials to manufacture our products. We are therefore committed to efficient energy management and continuously optimize the energy footprint of our production plants and offices.

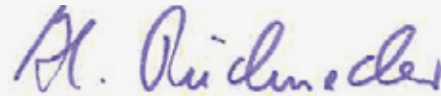
In the years ahead, we intend to focus on the following aspects in terms of sustainability:

- ▶ Optimizing the design of our protective packaging and stepping up application consultancy to avoid any unnecessary use of resources due to excess packaging
- ▶ Increasing the share of recycled materials across all products we manufacture
- ▶ Expanding our activities to prevent (plastic) pollution in oceans

In the following Sustainability Report we outline the various measures that we have already put into place and will build on continuously.

I hope you enjoy reading it!

Best regards



Hermann Reichenecker

OUR GOAL FOR 2025

USING AT LEAST

50%

**RAW MATERIALS MADE FROM
RECYCLED OR RENEWABLE
RESOURCES**



**VALUES & PRINCIPLES
REGARDING SUSTAINABILITY**

RESPONSIBILITY MEANS
OPERATING IN LINE
WITH CLEAR VALUES AND
GUIDING PRINCIPLES.



OUR BUSINESS

OUR AREAS OF CORE COMPETENCE LIE IN FIRST-CLASS PACKAGING SOLUTIONS AND MOLDED PARTS.

Our solutions in the protective packaging segment ensure that our customers' products can be transported safely. After all, a product is subject to a whole host of hazards while in transit, such as heavy impacts and temperature fluctuations. Thanks to the optimum use of packaging material, we make sure that goods arrive intact. Any product damaged in transit is not only frustrating for the recipient, but also harmful to the environment. The process of returning the damaged product and manufacturing and shipping a replacement item

consumes far more energy and resources than the use of a suitable packaging solution.

Our molded parts, which are made from expanded foams, are exceptionally lightweight and provide outstanding thermal insulation. As a result, they cut fuel consumption when used as automotive parts. And as insulation and elements in buildings even help to reduce the need for heating energy.



87 billion shipments worldwide¹



SUSTAINABLE PACKAGING
 MEANS OFFERING THE
 APPROPRIATE PROTECTION
 FOR EACH ITEM.

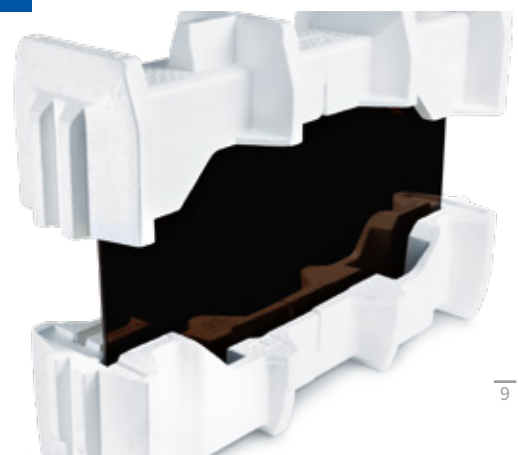
PACKAGING

- PAPER PADS**
- AIR CUSHIONS**
- FOAM PACKAGING**
- LOOSE FILL**
- INTEGRATIONS**



MOLDING

- CUSTOMIZED PROTECTIVE PACKAGING**
- TEMPERATURE-CONTROLLED PROTECTIVE PACKAGING**
- TECHNICAL MOLDED PARTS**





INNOVATION IS FOCUSED ON OUR CORE BUSINESS

TOGETHER WITH OUR CUSTOMERS AND SUPPLIERS WE DEVELOP AND SUPPLY INNOVATIVE SOLUTIONS.

In order to protect the environment and resources, we are committed to innovative and sustainable solutions when developing new products. Our aim is to use as many renewable and recycled plastics as possible. Therefore, our product development experts are increasingly using suitable eco-friendly and sustainable materials for our products. Recycling is also essential when it comes to using materials efficiently and sustainably. It is often possible to use leftover materials to make new protective

packaging without compromising on vital properties. We already use recycled materials in a wide variety of packaging solutions and work continuously to increase the share of these materials.

Already more than 30% of the products we manufacture are made of renewable or recycled raw materials.

SUPPLIERS CAN BECOME PARTNERS

GOOD SUPPLIERS CAN BECOME STRATEGIC PARTNERS.

As a long-standing customer of chemical company BASF, Storopack was selected – as part of the pilot phase of the ChemCycling project – to test the new chemically recycled raw material Styropor® Cycled in the production of EPS packaging. ChemCycling also makes it possible to recycle styrofoam packaging mixed with other or contaminated

plastics. Alongside mechanical recycling, chemical recycling can play a significant role in terms of closing the recycling loop. We are breaking new ground together with BASF when it comes to reusing plastics.

“We are delighted that we and our long-standing partner Storopack have been able to manufacture the first prototypes of Styropor® Cycled™ as part of our ChemCycling™ project. In conjunction with Storopack, we hope to continue finding answers to the questions raised by the current debate surrounding the disposal and recycling of plastics.”

KLAUS RIES, VICE PRESIDENT OF GLOBAL BUSINESS MANAGEMENT, STYRENIC FOAMS, BASF






P

THREE PILLARS FOR MORE SUSTAINABILITY

**INNOVATIVE,
SUSTAINABLE, AND
RESOURCE-SAVING
PRODUCTS**

**INTERNAL
INITIATIVES**

**COLLABORATIVE
INITIATIVES**



Our mission is to provide our customers with perfect protective packaging and first-class molded parts. As we choose an appropriate solution, the benefits and functions of our products play a crucial role. In terms of product development, the focus is on design, recycling and sustainability. Our portfolio already includes a large number of products made from recycled or renewable resources.

INNOVATIVE, SUSTAINABLE AND RESOURCE SAVING PRODUCTS



SAFETY

Our protective packaging ensures that our customers' products arrive safe and sound at their destinations. Therefore, it prevents the unnecessary use of resources associated with the manufacture and shipping of replacement items for damaged goods, which would have a negative impact on the environment.

The safety aspect is particularly significant in the medical and pharmaceutical sectors. With our temperature-controlled protective packaging solutions, we ensure that vital medications are supplied to patients safely and at the right temperature.

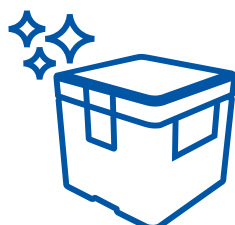
But we don't just focus on optimum product protection. Our expanded foams are used in vehicle interiors, bumpers, headrests, and impact absorbers, effectively protecting passengers from injury, as they're able to absorb the energy resulting from accidents.



INSULATION

Reliable insulation is essential for products that need to be stored and transported within a certain temperature range, such as those in the pharmaceutical and food industry. We offer various insulating boxes and system solutions for the safe transport of temperature-sensitive and perishable goods.

Our molded parts, which are made from expanded foams, provide outstanding thermal insulation. Heat energy savings of up to 70% can be made using insulation and formwork elements in buildings.



HYGIENE

When shipping food and medicines, hygiene is the top priority when choosing suitable packaging, in addition to product safety. Thanks to their good insulating properties, packaging made of expanded foams ensures that food remains fresh, germ-free and hygienic.

Our protective packaging made of plastic or expanded foams not only protects against impact or moisture, but also keeps oxygen and germs away and can be adapted to the packaged product with the highest degree of flexibility. In addition, they can be reliably cleaned, so that the high standards of hygiene can be guaranteed even when the packaging is reused.



RECYCLABILITY

Our PAPERplus® paper cushioning, PELASPAN® packaging chips, and AIRplus® air cushions are flexible protective packaging solutions that are fully recyclable. Their disposal via existing recycling systems helps to reduce the use of primary raw materials.

Post-consumer or post-production waste from the FOAMplus® foam packaging can also be used as a substitute for primary raw materials: as a component of the general waste stream, FOAMplus® foam is an outstanding fuel for modern plants that generate energy from waste.

Our protective packaging solutions and molded parts made from expanded foams such as polystyrene (EPS) and polypropylene (EPP) can also be fully recycled. For example, we make new Loose Fill packaging chips from used EPS packaging, which retains its key material properties during the recycling process.

Storopack is the first manufacturer with a fully integrated and patented production of the new raw material rEPS. It consists of 100% recycled EPS or PS and the protective packaging can also be produced with up to 100% content using this raw material.



REUSABILITY

We are committed to making our products reusable wherever possible, with material properties playing a central role in this regard. By using expanded polypropylene (EPP) as the basis for technical molded parts and protective packaging, for example, we ensure the durability of our product solutions. As a result, both insulated boxes for temperature-sensitive transport and cargo carriers can be used multiple times.

We are also committed to outstanding material quality when it comes to our flexible packaging solutions. PAPERplus® paper cushioning, FOAMplus® foam packaging, AIRplus® air cushions, and Loose Fill packaging chips, for instance, can all be reused.

LOW WEIGHT AND VOLUME

All our products are exceptionally lightweight. As such, they not only reduce general vehicle fuel consumption when used as automotive components, but also result in fuel savings during transport when used as protective packaging.



The AIRplus®, PAPERplus®, and FOAMplus® product lines are designed in such a way that the cushioning can be produced on demand at the packing station. This not only saves storage space at our customers' sites, but also reduces transport volume. In turn, this has a positive impact on the fuel consumption associated with the shipping of our goods.

COMPOSTABILITY

We attach considerable importance to open and transparent communication in terms of the compostability of our products. Any of our products with the word "BIO" in their name are made using renewable raw materials and are biodegradable. They have been officially certified by independent, well-respected institutions (DIN CERTCO and BPI).





For example, the compostability of our AIRplus® BIO film and our PELASPAN® BIO packaging chips has been certified internationally in accordance with DIN EN 13432 (Europe) and ASTM D6400 (USA).

Our packaging chips PELASPAN® BIO and Renatur® are also certified in Germany, France, Spain and the UK for garden composting in accordance with NF T51-800. These products can completely decompose in a domestic compost without the use of additional energy and CO₂.

In keeping with this ethos, we oppose all products that are labeled as "bio," "organic," or "biodegradable" and that only conform to less stringent standards. This kind of labeling is misleading to customers and harms the credibility of our entire industry. We are referring here to plastic products with oxo or micro additives that are not really biodegradable, but that merely disintegrate so as to become invisible. What's more, these products do great damage to the recycling circuits and systems.

 **BPI:** www.bpiworld.org

 **DIN CERTCO:** www.dincertco.de/din-certco/en



PRODUCTS MADE FROM RENEWABLE RAW MATERIALS

SUSTAINABILITY MEANS USING REGROWING RAW MATERIALS.

New, more sustainable raw materials are one way to protect the environment and natural resources. Therefore, our product development experts are increasingly using suitable renewable materials for our products. Thus protecting resources while offering our customers the same outstanding packaging properties that they have come to expect from products made using conventional materials.



PAPERplus® CLASSIC GRASS

- ▶ CONSISTS OF GRASS FIBERS AND RECYCLED PAPER
- ▶ CAN BE FULLY RECYCLED OR COMPOSTED
- ▶ GRASS IS A RENEWABLE RESOURCE AND, DURING PRODUCTION, USES FAR LESS WATER AND ENERGY THAN REQUIRED FOR WOOD FIBERS
- ▶ OFFERS THE SAME OUTSTANDING PROTECTIVE PACKAGING PROPERTIES AS OTHER STOROPACK PAPER TYPES

AIRplus® BIO

- ▶ MADE PARTLY FROM BIO-BASED RAW MATERIALS SUCH AS POLYLACTIC ACID, WHICH IS DERIVED FROM CORN
- ▶ FULLY INDUSTRIAL COMPOSTABLE AND CERTIFIED IN ACCORDANCE WITH EN 13432 AND ASTM D6400
- ▶ EXCEPTIONALLY STABLE, ELASTIC, AIRTIGHT, AND LIGHTWEIGHT

PAPERplus® PAPER CUSHIONING

- ▶ PRODUCED FROM RENEWABLE RAW MATERIALS
- ▶ STOROPACK DOES NOT USE ANY COATED PAPERS
- ▶ DISPOSAL VIA EXISTING RECYCLING SYSTEMS HELPS TO REDUCE THE USE OF PRIMARY RAW MATERIALS

PELASPAN® BIO

- ▶ MADE FROM VEGETABLE STARCH
- ▶ GARDEN COMPOSTABLE AND CERTIFIED IN ACCORDANCE WITH NF T51-800 IN GERMANY, FRANCE, SPAIN AND UK
- ▶ COMPOSTABLE AND CERTIFIED IN ACCORDANCE WITH DIN EN 13432 (EUROPE) AND ASTM D6400 (USA)
- ▶ ENTIRELY BIODEGRADABLE (NO RESIDUE) AND WATER-SOLUBLE
- ▶ LOW-DUST, ANTISTATIC, AND WEAR-RESISTANT

BIO-BASED

- ▶ MADE FROM 80% BIO-BASED POLYLACTIC ACID, WHICH IS DERIVED FROM CORN OR OTHER SUGAR-PRODUCING PLANTS SUCH AS CASSAVA
- ▶ FULL INDUSTRIAL COMPOSTABILITY IS CERTIFIED IN ACCORDANCE WITH INTERNATIONAL STANDARDS
- ▶ EXCEPTIONALLY RESISTANT TO MOISTURE AND SHOCKS
- ▶ OFFERS OUTSTANDING PACKAGING PROPERTIES AND COMPLIES WITH FOOD PACKAGING REGULATIONS

AIRplus® RECYCLE

- ▶ MADE FROM AT LEAST 50% RECYCLED MATERIALS
- ▶ SUITABLE FOR LIGHT TO MEDIUM WEIGHT PRODUCTS
- ▶ AVAILABLE AS VOID, CUSHION, BUBBLE OR WRAP FILM

FOAMplus® 5504R

- ▶ PACKAGING FOAM MADE PARTLY FROM POLYOL, A RAW MATERIAL FROM RECYCLED POLYURETHANE
- ▶ WASTE AND LEFTOVER POLYURETHANE FROM MANUFACTURING OR CONSUMERS IS PROCESSED AT RECYCLING FACILITIES IN ORDER TO PRODUCE POLYOL
- ▶ HAS SIMILAR PROPERTIES TO THE BASE MATERIAL AND CAN BE USED TO PRODUCE HIGH-QUALITY PROTECTIVE PACKAGING

PAPERplus® RECYCLED PAPER

- ▶ MADE FROM 100% RECYCLED PAPER OR CARDBOARD
- ▶ CAN BE FULLY RECYCLED
- ▶ DELIVERS RELIABLE PRODUCT PROTECTION THANKS TO THE SAME PACKAGING PROPERTIES AS CONVENTIONAL KRAFT PAPER

PELASPAN® PACKAGING CHIPS

- ▶ CONSIST OF 100% RECYCLED MATERIALS
- ▶ CAN BE FULLY RECYCLED
- ▶ PROVIDE THE SAME OUTSTANDING PACKAGING CHARACTERISTICS AS PRODUCTS THAT DO NOT CONTAIN ANY RECYCLED MATERIALS

Styropor® Ccycled™

- ▶ MADE USING THE INNOVATIVE ChemCycling™ PROCESS AND WITH MIXED OR EVEN CONTAMINATED PLASTIC WASTE FROM THE “GELBER SACK” YELLOW BIN BAGS OR THE “GELBE TONNE” YELLOW BINS
- ▶ PROTECTIVE PACKAGING MADE FROM Styropor® Ccycled™ PROVIDES THE SAME HIGH QUALITY AS PACKAGING SOLUTIONS MADE FROM CONVENTIONAL EPS – AND MEETS THE SAME HIGH STANDARDS IN TERMS OF HYGIENE AND FOOD SAFETY
- ▶ CONTRIBUTES TO THE CIRCULAR ECONOMY – AS PLASTIC WASTE IS USED IN THE PRODUCTION PROCESS – AND IS ecoLoop-CERTIFIED

rEPS


- ▶ CONSISTS OF 100% RECYCLED EPS OR PS
- ▶ THE PROTECTIVE PACKAGING CAN BE PRODUCED WITH UP TO 100% OF THIS RAW MATERIAL
- ▶ SIMPLE AND EFFICIENT CYCLE FOR EPS PROTECTIVE PACKAGING
- ▶ MAINTAINS THE IMPORTANT PACKAGING PROPERTIES OF VIRGIN EPS



PRODUCTS MADE FROM RECYCLED RAW MATERIALS

RECYCLING MEANS
USING RAW MATERIALS
AS EFFICIENTLY AND
SUSTAINABLY AS POSSIBLE.

Recycling is a continuous process when it comes to using materials as efficiently and sustainably as possible. Indeed, it is often possible to use leftover materials to make new protective packaging without compromising on vital properties. Therefore, we already use recycled materials in a wide variety of packaging solutions – and work continuously to increase the share of these materials.

An aerial photograph of a river delta, showing a network of channels and sandbars. The water is a deep blue, and the sandbars are a light tan color. A large white rectangular box is overlaid on the left side of the image, containing text. The overall scene is captured from a high angle, looking down at the river's mouth.

Sustainable production begins long before we turn raw materials into our products. Therefore, we take a variety of internal measures to protect resources and optimize our environmental footprint.

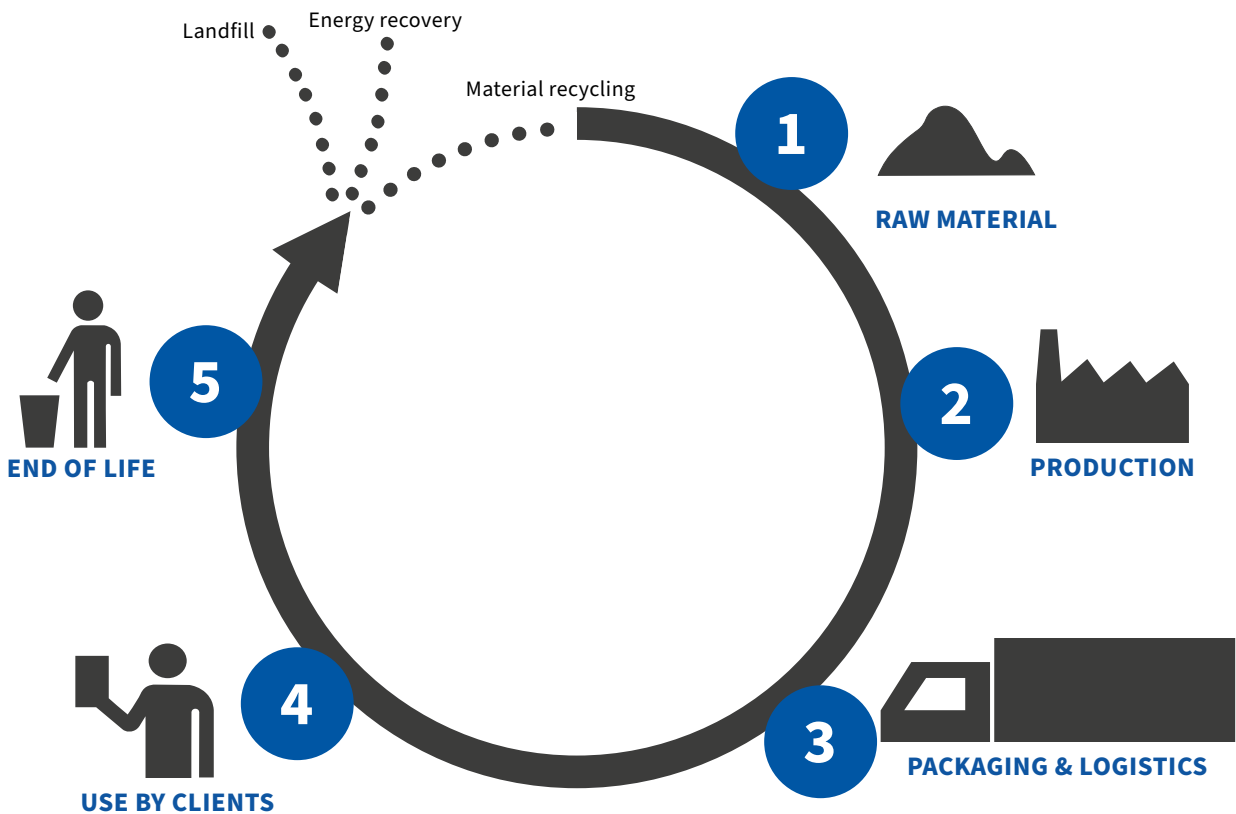
INTERNAL INITIATIVES

INTERNAL LCA TOOL (EcoDesign)

PROGRESS MEANS IDENTIFYING THE OPTIMUM USE OF RESOURCES FOR OUR CUSTOMERS.

Using our EcoDesign tool, we analyze all phases of a product life cycle. We not only examine the use of resources for the product itself and during its production, but also factor in the needs and specifications of our customers. We consider, for example, whether the customer would like a product made using bio-based or recycled raw materials or whether the product's

reusability is the top priority. All this is ensured using our EcoDesign tool, with various products and raw materials compared and contrasted. The result represents the environmental footprint and is designed to help our customers find the right product solution.



ENERGY EFFICIENCY

EFFICIENCY MEANS USING ENERGY CONSCIOUSLY.

As our energy consumption accounts for a significant portion of our carbon footprint, the equipment at our production plants also plays a major role when it comes to protecting resources. We are therefore committed to efficient energy management and continuously optimize the energy footprint of our locations through remaining

state of the art. We have already achieved considerable reductions in our CO₂ emissions and energy consumption thanks to a variety of modernization measures. In addition to the energy management system, our locations in Germany have also been certified in accordance with DIN ISO 50001.



19

NEW VACUUM PUMPS

... in the production facilities at the Langenau, Krumbach, Vechta, Saint-Sébastien-sur-Loire, and Mollet del Vallès locations consume electricity on demand only and thus save energy.



1,624
NEW LED LAMPS

... are replacing the less efficient incandescent light bulbs at the Krumbach, Vechta, Mollet del Vallès, Huarte, and Saint-Sébastien-sur-Loire locations. As a result, we are saving 45,991 kilowatt-hours a month.



1,1
METRIC TONS OF

... a year are saved by our Krumbach location thanks to more efficient energy management and a wide variety of modernization measures.



588,416
KILOWATT-HOURS OF WASTE HEAT

... from production are used for heating at the Krumbach, Vechta, and Mollet del Vallès locations every month.



850
METRIC TONS OF CO₂

... a year are saved by our Krumbach location thanks to more efficient energy management and a wide variety of modernization measures.



20
TONS
CO₂

... achieved by our Vechta
... to more efficient
... ment and a wide
... ization measures.



8
MOLDING
LOCATIONS

... have had their energy efficiency
... reviewed in independent energy audits
... since 2016 – and have identified
... measures for improvement: Anetz,
... Huarte, Krumbach, Langenau,
... Mainleus, Mollet del Vallès,
... Saint-Sébastien-sur-Loire, and Vechta.



9
ELECTRIC
MOTORS

... in the production facilities at the
... Langenau, Krumbach, Vechta,
... Saint-Sébastien-sur-Loire, and Mollet
... del Vallès locations consume
... electricity on demand only and thus
... save energy.



223,440
KILOWATT-HOURS
OF ELECTRICITY

... a month are generated on-site for
... production in Krumbach, Vechta, and
... Langenau, using combined heat and
... power units.



3
NEW
BOILERS

... have been installed at the
... Krumbach, Vechta and Mollet del
... Vallès locations to enable more
... efficient heating.

FOR WA

To boost sustainability in the use of plastics, we are involved in initiatives dedicated to combating plastic waste such as Big Blue Ocean Cleanup, Operation Clean Sweep and the Alliance to End Plastic Waste.

COLLABORATIVE INITIATIVES

CLEAR TER

COMBATING PLASTIC WASTE



FOR CLEAN BEACHES



**INFRASTRUCTURE
DEVELOPMENT**



INNOVATION



**EDUCATION AND
ENGAGEMENT**



CLEANUP



FOR CLEAN BEACHES

BIG BLUE OCEAN CLEANUP

We've been supporting the international nonprofit foundation "Big Blue Ocean Cleanup" since 2018. As an exclusive sponsor of the coastal cleaning program, we've dedicated ourselves to a long-term partnership. Big Blue Ocean Cleanup makes an active effort to raise awareness of the current state of the world's seas and is dedicated to protecting marine life and sustainability for clean oceans and coastlines – with initiatives dedicated to cleaning beaches, removing plastic from the ocean, offering training courses and informing partners as well as the general public.

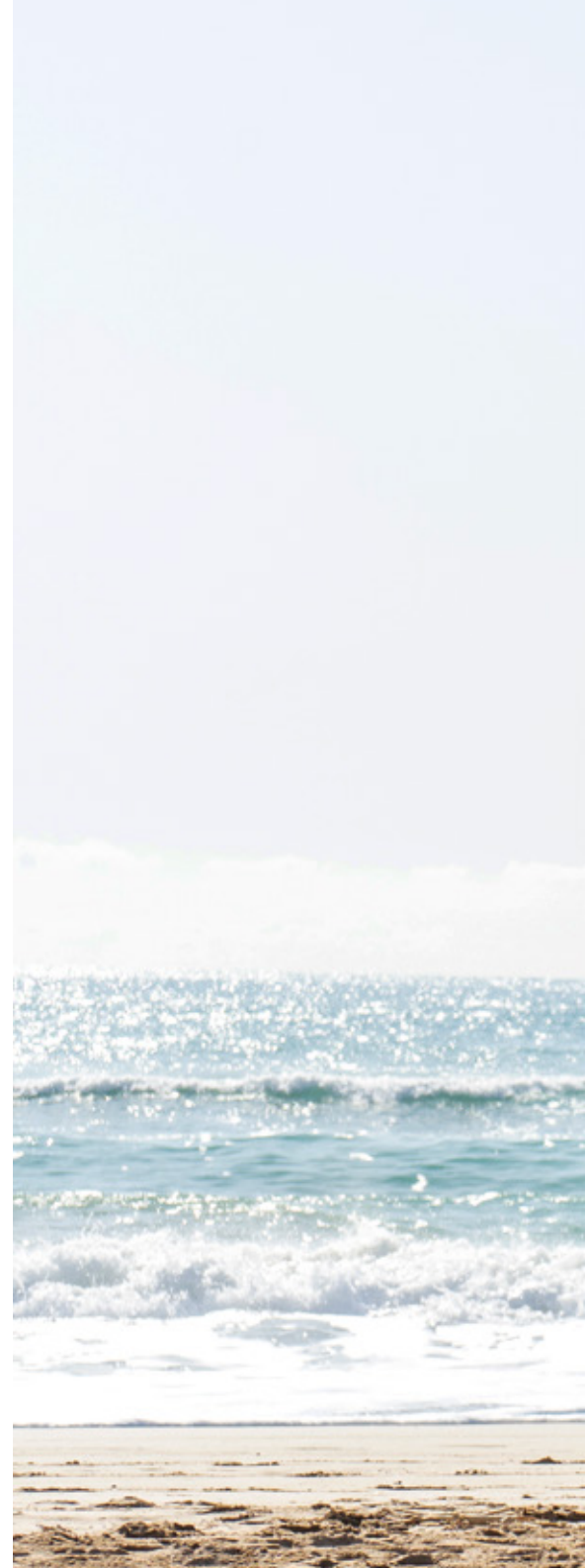
In addition to supporting Big Blue Ocean Cleanup financially, we also play an active role. For example, our employees voluntarily take part in beach cleaning initiatives in the UK, Germany, France, Italy, Spain, and Benelux, removing micro plastics and small plastic particles from beaches. The Big Blue Ocean Cleanup's coastal cleaning program can be found all over the world.

 www.bigblueoceancleanup.org



"We are pleased to have Storopack as our exclusive sponsor for the Big Blue Ocean Cleanup Coastal Cleaning Program. Storopack and its employees really care about the protection of the oceans. This has already been demonstrated by a number of beach cleaning events in which Storopack employees have voluntarily provided active support on site. Further joint events throughout Europe are being planned."

RORY SINCLAIR, CHIEF EXECUTIVE, BIG BLUE OCEAN CLEANUP





COMBATING PLASTIC WASTE

ALLIANCE TO END PLASTIC WASTE

Plastic waste in the environment, especially in the world's oceans, is a huge problem. Together with some 40 other firms, we have signed up to the Alliance to End Plastic Waste, whose mission is to allow no plastic waste to enter the environment and clean up existing plastic pollution. The global initiative 'Alliance to End Plastic Waste' involves corporations from around the world and along the entire plastics value chain. The participating companies have already pledged funds totaling roughly one billion US dollars. Over the next five years, it is expected that at least 1.5 billion dollars will be made available for a variety of projects and initiatives.

The Alliance to End Plastic Waste pursues a four-part strategy:

INFRASTRUCTURE DEVELOPMENT

The development of infrastructure for cities and regions that are particularly badly affected by plastic waste.

Aim: to collect and manage waste and increase recycling

INNOVATION

Investment in new technologies that facilitate recycling and the recovery of plastics.

Aim: to develop innovative solutions for packaging recycling and enable a circular economy

EDUCATION AND ENGAGEMENT

Educating consumers and the affected population about recycling processes.

Aim: to raise awareness

CLEANUP

Removing the plastic waste that has already built up in oceans and rivers, which is a particularly urgent task.

Aim: to clean up the plastic already in the environment

 www.endplasticwaste.org

**ALLIANCE
TO END
PLASTIC
WASTE** 

RESEARCH HAS IDENTIFIED THE MOST SIGNIFICANT SOURCES OF UNMANAGED PLASTIC WASTE, AND KEY ASPECTS OF THE SOLUTION³

80% OF OCEAN PLASTIC COMES FROM LAND-BASED SOURCES³

OVER HALF OF LAND-BASED PLASTIC WASTE LEAKAGE COMES FROM JUST 5 COUNTRIES IN ASIA³

90% OF RIVER-BASED PLASTICS TO THE OCEAN ARE TRANSPORTED BY 10 RIVERS³



FOR CLEAR WATER

OPERATION CLEAN SWEEP

With all our locations worldwide, we have committed ourselves to the objectives of Operation Clean Sweep and thus set ourselves the goal of preventing any plastic particles used at production facilities from finding their way into the environment through water. As such, we are making an important contribution to preventing granule loss in the plastics value chain.

To achieve this goal, the necessary technical and structural conditions have been created to prevent the spillage of granules and ensure that granules that have been spilled do not find their way into the environment. For example, our systems have been equipped with special water filters. Moreover, employees have been trained to prevent the spillage of plastic granules and, if necessary, effectively dispose of them.

Through the locations of our Molding-Division in Germany, we are a certified member of the Zero Pellet Loss initiative of the German Association for Plastics Packaging and Films.

 www.opcleansweep.org







SUSTAINABLE SOLUTIONS

SUSTAINABLE PACKAGING
MEANS MORE THAN JUST
LOOKING AT THE RAW MATERIAL.

IT'S REASSURING WHEN MEDICATION ARRIVES SAFE AND SOUND.

Storopack is the preferred and reliable supplier of innovative (temperature controlled) transport solutions for the medical market in Europe. Storopack offers individual solutions for temperature-controlled transport

that are tailored to customers specific requirements. They are designed to facilitate the transportation of medications and guarantee an optimal temperature range.

OUR SOLUTION: ONCO- & CLINIC-SYSTEM

The Onco-System for pharmacies and laboratories and the Clinic-System for hospitals, which are made of durable EPP, close up tight and provide additional sealing, thus

ensuring reliable leakage protection. All components can be effectively disinfected and the boxes can be reused at least 200 times without compromising hygiene.



SAFETY

- ▶ VERY GOOD PRODUCT PROTECTION LIMITING PRODUCT BREAKAGE AND RETURNS



INSULATION

- ▶ NO ENERGY CONSUMPTION TO COOL THE PRODUCTS AND USE OF PASSIVE TRANSPORT



LOW WEIGHT AND VOLUME

- ▶ RANKS AMONG THE LIGHTEST PROTECTIVE PACKAGING SOLUTIONS
- ▶ LESS FUEL CONSUMPTION AND EMISSIONS



REUSABILITY

- ▶ AT LEAST 200 CYCLES PER BOXES AND EACH PART OF THE BOX IS EXCHANGEABLE
- ▶ ONE BOX FOR SEVERAL DELIVERIES




HYGIENE

- ▶ SMOOTH SURFACE AND REMOVABLE PLASTIC TRAY ALLOWS RELIABLE CLEANING

“SLK hospital Heilbronn is a group with several clinics and operates deliveries from pharmacy to the clinics. With the Storopack solutions, we know with absolute certainty that the temperature of the medicines stays between 2 and 8 degrees. Easy to use with hermetic closing mechanism, reliable, and easy to wash and reuse.”

**DR. STEFFEN PELZL, HEAD OF PHARMACY
SLK HOSPITAL HEILBRONN**

200+
REUSABLE

 **More about Medical:**
www.storopack.com/your-industry/medical



5%

IMPACT REDUCTION
ON CLIMATE CHANGE
DUE TO NO NEED
FOR STRAPPING

FRESH MEANS YOUR GOODS ARRIVE IN THE CONDITION THEY WERE SENT IN.

Storopack offers a wide range of boxes made of EPS as well as recycled and bio-based materials for the transport of foods, such as fish, meat or vegetables. Storopack always adapts the protective packaging to

the needs of the customer, to make sure the product is transported to the recipient in the safest way without any damage.

OUR SOLUTION: SEAclic BOXES

The SEAclic boxes from Storopack are the ideal solution for companies that ship fish and other fresh food. The transport solution with a focus on environmen-

tally conscious and at the same time user-friendly design is available in various materials: Styropor® Cycled™, bio-based raw material and EPS.



SAFETY

- ▶ VERY GOOD PRODUCT PROTECTION LIMITING PRODUCT BREAKAGE AND RETURNS
- ▶ THE BOXES CAN BE STACKED AND ALLOW TO OPTIMIZE THE TRANSPORT - NO ADDITIONAL STRAPPING REQUIRED
- ▶ SECURITY FOR THE PRODUCT BY MECHANICAL RESISTANCE



INSULATION

- ▶ LESS ENERGY CONSUMPTION



LOW WEIGHT AND VOLUME

- ▶ RANKS AMONG THE LIGHTEST PROTECTIVE PACKAGING SOLUTIONS
- ▶ LESS FUEL CONSUMPTION AND EMISSIONS



RECYCLABILITY

- ▶ LESS WASTES
- ▶ REDUCTION OF USE OF PRIMARY RAW MATERIAL AND CONTRIBUTION TO CIRCULAR ECONOMY
- ▶ EPS BOX IS 100% RECYCLABLE



HYGIENE

- ▶ EPS PROTECTIVE PACKAGING MEETS THE HIGH HYGIENE REQUIREMENTS AND GUARANTEES FOOD SAFETY



ADDITIONAL

- ▶ LESS FUEL CONSUMPTION BY FACTORIES IN DIFFERENT LOCATIONS IN EUROPE
- ▶ COST OPTIMIZATION AND LESS ENERGY CONSUMPTION BY STANDARDIZATION



 **More about Protective Packaging for Food:**
www.storopack.com/your-industry/food

DUNNAGES

LONG-TERM SERVICES MEANS OFFERING THE IDEAL REUSABLE SOLUTION.

Storopack offers reusable packaging for the transport of sensible parts between suppliers or from suppliers to car makers. EPP is used specially for parts that have

to be protected during transport like painted plastic or metal parts, sun roofs, rear view mirrors, and electronic components.



SAFETY

- ▶ SHOCK AND ENERGY ABSORPTION
- ▶ INCREASES THE SAFETY OF THE USERS



LOW WEIGHT AND VOLUME

- ▶ RANKS AMONG THE LIGHTEST PROTECTIVE PACKAGING SOLUTIONS
- ▶ LESS FUEL CONSUMPTION AND EMISSIONS



REUSABILITY

- ▶ ONE DUNNAGE FOR SEVERAL DELIVERIES



RECYCLABILITY

- ▶ LESS FINAL WASTES TO LANDFILL AND INCINERATE
- ▶ REDUCED USE OF VIRGIN RAW MATERIALS

Continuous increase of use of EPP packaging in automotive market due to the good protection of the molded parts, the reusability and the recyclability.

↓ **7% OF CO₂**

Thanks to the low weight of the EPP compared to non expanded materials such as PP, there is a 7% reduction in CO₂(eq.) emissions per kilometer.



More about Dunnages:

www.storopack.com/your-industry/automotive/cargo-carriers



PERFECT PROTECTIVE PACKAGING

MEETING STANDARDS MEANS USING HIGH-QUALITY PARTS TO BUILD CARS.

Storopack develops and produces technical molded parts in compliance with the customer's requirements. In general EPP and to a lesser extent EPS, are used for applications where the following characteristics are

needed: Energy and shock absorption, light weight, thermal and acoustic insulation, such as absorbers for bumpers, seat supports, tool, boxes trunk, supports, etc.



SAFETY

- ▶ SHOCK AND ENERGY ABSORPTION
- ▶ INCREASES THE SAFETY OF THE USERS
- ▶ LONGER LIFE CYCLE OF THE AUTOMOTIVE PRODUCT



LOW WEIGHT AND VOLUME

- ▶ RANKS AMONG THE LIGHTEST SOLUTIONS
- ▶ LESS FUEL CONSUMPTION AND EMISSIONS



INSULATION

- ▶ LESS ENERGY CONSUMPTION TO COOL OR TO HEAT THE VEHICLE
- ▶ USER'S COMFORT BY REDUCTION OF THE NOISE



RECYCLABILITY

- ▶ EPP AND EPS ARE FULLY RECYCLABLE



35%

Continuous increase of EPP content in cars, especially in electrical

and hybrid cars due to its lightweight requirement. Indeed, the LCA study on the use of the product ARPRO (EPP) in a seat-core made by ERM, shows that there is a reduction of 35% of the components weight. Thus, if this saving is applied to the number of cars sold annually, an environmental saving of nearly 16 million tons of CO₂(eq.) could be achieved. Also, ARPRO is fully recyclable.

Life Cycle Assessment reports of ARPRO:

www.storopack.com/arpro-life-cycle-assessment-reports



More about Technical Molded Parts:

www.storopack.com/your-industry/automotive/technical-molded-parts

AIRplus®

IT'S THE PERFECT FIT WHEN FEATHERLIGHT GOODS ARE SHIPPED IN FEATHERLIGHT PACKAGING.

The air cushion formats AIRplus® Void, AIRplus® Cushion, AIRplus® Bubble and AIRplus® Wrap offer a broad range of air cushion types. This means diverse application options for the protection of goods in packages. The AIRplus® range features a variety of machine types designed for

different packaging processes. Perfectly fitting equipment is offered to every company using our extensive range of machines designed for small, medium and high performance packaging needs.

SAFETY



- ▶ VERY GOOD PRODUCT PROTECTION LIMITING PRODUCT BREAKAGE AND RETURNS
- ▶ SHOCK AND ENERGY ABSORPTION

LOW WEIGHT AND VOLUME



- ▶ 99% OF AIR
- ▶ RANKS AMONG THE LIGHTEST SOLUTIONS
- ▶ LESS FUEL CONSUMPTION AND EMISSIONS - AIR CUSHIONING ALLOWS A 1.2 KG (I.E. 0.5%) REDUCTION OF CO₂(EQ.) EMISSIONS PER 1,000 KM COMPARED TO OTHER SOLUTIONS HEAVIER THAN AIR CUSHIONS*

REUSABILITY



- ▶ LESS TRANSPORT PACKAGING TO PRODUCE AVOIDS CONSUMPTIONS AND WASTES
- ▶ CONTRIBUTE TO THE CIRCULAR ECONOMY

RECYCLABILITY



- ▶ LESS FINAL WASTES TO LANDFILL AND INCINERATE
- ▶ REDUCTION OF USE OF PRIMARY RAW MATERIAL AND CONTRIBUTION TO CIRCULAR ECONOMY

COMPOSTABILITY




- ▶ LESS FINAL WASTE THROUGH BIODEGRADATION

1.2

KG OF CO₂

„Our customers like to have different protective packaging options and place importance on sustainability. Storopack has just the right products from films featuring a high percentage of recycled materials to compost solutions.“

**GUIA D'ACQUISTO,
COMPANY'S DIRECTOR, CD GR**

 **More about AIRplus®:**
www.storopack.com/airplus

Air cushioning allows a 1.2 kg reduction of CO₂(eq.) emissions per 1,000 km.



AIRplus® RECYCLYE

- ▶ MADE FROM AT LEAST 50 PERCENT RECYCLED MATERIALS
- ▶ CAN BE RECYCLED
- ▶ CONSERVING RESOURCES OVER THE LONG TERM

50% RECYCLE OR MORE



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GROUP

AIRplus® BIO

- ▶ MADE PARTLY FROM BIOPLASTICS SUCH AS POLYLACTIC ACID, WHICH IS DERIVED FROM CORN
- ▶ FULLY INDUSTRIALLY COMPOSTABLE AND CERTIFIED IN ACCORDANCE WITH EN 13432 AND ASTM D6400
- ▶ EXCEPTIONALLY STABLE, ELASTIC, AIRTIGHT, AND LIGHTWEIGHT – USES LESS MATERIAL IN PRODUCTION

182 DAYS

in the right conditions fully industrially compostable in





If you would like to obtain additional information or speak to us directly, please feel free to get in touch with us. At Storopack we are happy to help.

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