



Packaging systems

made from structured core panels
and twin-wall sheets

Bespoke solutions for individual requirements



Polypropylene structured core panels and twin-wall sheets – a modern packaging material

Ideal for sustainable packaging systems

Light, abrasion-resistant, moisture-proof, stable – structured core panels and twin-wall sheets are ideal for manufacturing packaging systems for delicate products. A high load capacity with a comparatively low weight not only makes the packaging easier to handle, it also guarantees its durability and reusability.

As an alternative to disposable packaging made from solid or corrugated board, reusable packaging makes a positive contribution to environmental and climate protection. It reduces waste, conserves natural resources and lowers the carbon footprint with every use. Our packaging is also 100% recyclable when it comes to the end of its useful life.



Sustainable packaging solutions for an **environmentally friendly** future.



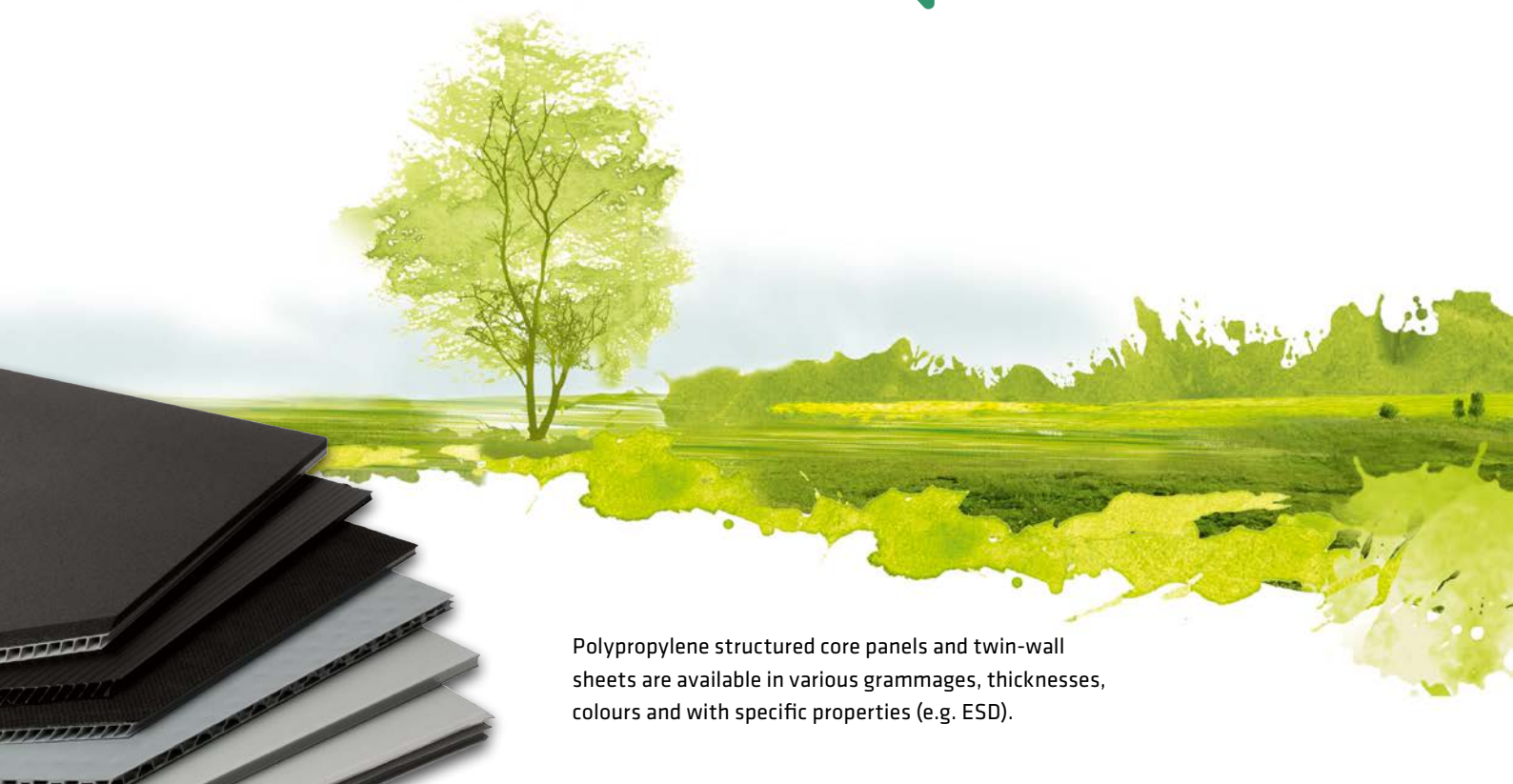
Reuse
Avoid waste



Reduce
Reduce CO₂ emissions



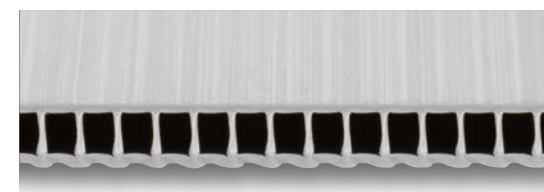
Recycle
Conserve resources



Polypropylene structured core panels and twin-wall sheets are available in various grammages, thicknesses, colours and with specific properties (e.g. ESD).

Twin-wall sheets

A twin-wall sheet consists of two layers of polypropylene film. These are connected by vertical ribs. The entire sheet is shaped using pressure and heat in a process known as extrusion. A twin-wall sheet is constructed in a single process.



Technical properties

Structure: Flutes
Material thickness: 2 - 10 mm
Grammage: 280 - 3,000 g/m²
Manufacture: Single

- + High strength
- + Easy processing
- + Ideal for foldable packaging

Structured core panels

A polypropylene structured core panel consists of three layers that are welded together in a thermal process. The honeycomb middle layer forms the core and is enclosed by two top layers. This is also known as a honeycomb panel or trillaminate.



Technical properties

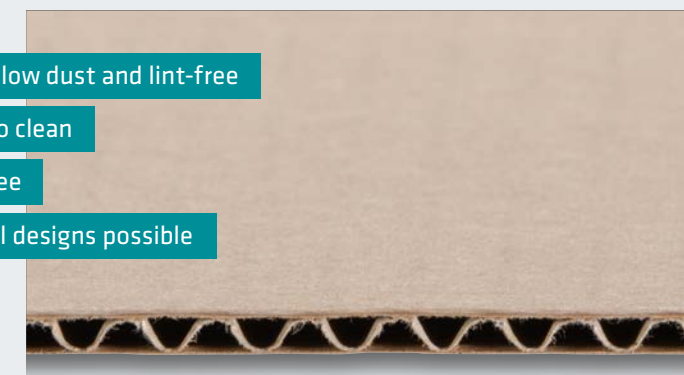
Structure: Honeycomb
Material thickness: 3, 5, 10 mm
Grammage: 1,000 – 4,000 g/m²
Manufacture: Layer

- + Consistent force absorption
- + High load capacity
- + For forming stackable solutions



Your advantages compared to solid or corrugated board

- + High strength and stability
- + Pressure-, impact- and scratch-resistant
- + Moisture-proof & water-repellent
- + Resistant to oils, greases and solvents
- + Clean, low dust and lint-free
- + Easy to clean
- + Rot-free
- + Special designs possible



Processing methods

Quality and functionality come first

Die-cutting & plotting

Modern beam cutting presses and roller cutting machines enable blanks to be punched out precisely and in larger quantities. For more complex contours and prototypes a CAD-controlled cutting plotter is used.

- + Fast production and high quality



Welding

To join individual packaging elements firmly and permanently together, we use thermal welding processes such as hot plate, hot air or ultrasonic welding.

- + Without adhesives or additives



Bending, edging, embossing

Double-walled packaging and packaging with rounded edges can be produced by bending and edging the sheets. Foldable packaging solutions can likewise be created.

- + Greater stability and lower risk of injury



Sealing edges

We use an edge-sealing machine to round off packaging edges and seal the hollow flutes or combs of the sheets. Ideal for high hygiene requirements.

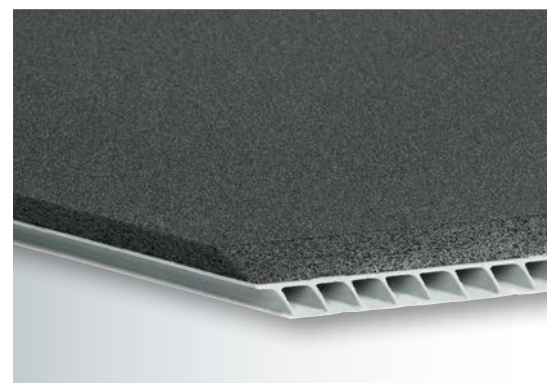
- + Fewer impurities



Labelling

We offer various options for marking packaging: Labels, label holders, document pockets or thermal transfer printing.

- + Individual labelling



Combining with foam

Foam inserts are cut to the shape and size of the component to be packaged and then glued on the sheet. This guarantees that the parts are held carefully in place.

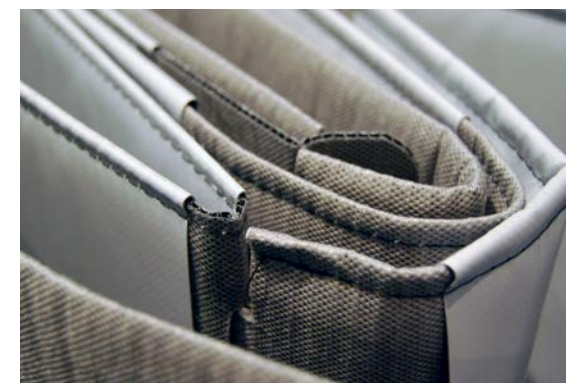
- + Increased product protection



Fleece laminating

To protect the surface of delicate components, structured core panels and twin-wall sheets can be laminated with fleece on one or both sides.

- + Improved surface protection

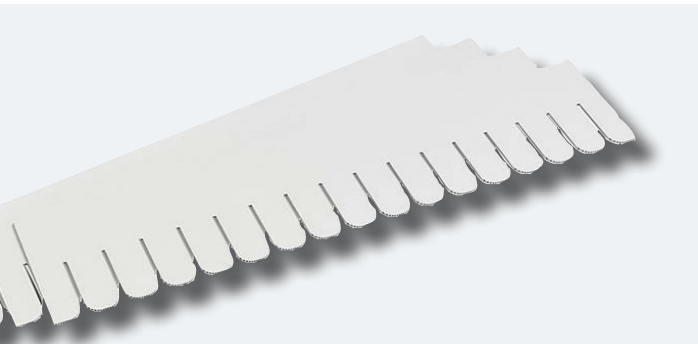


Flexible molding

Flexi Soft material allows products with irregular or curved shapes to be packaged efficiently. The material is also very soft and gentle on sensitive surfaces.

- + High packing density for every shape

Dividers – inner packaging or standalone packaging solution



Divider

Loose long and short crosspieces for flexible DIY insertion.



Prefitted dividers

Individual, prefitted compartments. Also available with loss protection.



Welded dividers

Sturdy divider solutions in which the crosspieces are welded to the outer frame.



Dividers as inner packaging

The size and shape of our dividers can be adapted to any transport container, from KLT boxes to large load carriers, and ensure optimal use of the interior space. They can also be folded when empty, which saves volume for return transport and storage.

Dividers as a standalone solution

Outer packaging is not always included. In these cases, solutions such as our divider boxes or shelf dividers are the right choice. Due to their sturdy construction and advanced handling properties, they can be used either with or without containers.



Divider box

Our divider box is a container and divider in one.



Shelf dividers

Upright dividers for horizontal product removal.



Cross lock

Patented connectors for improved stability for high dividers.

More products

For protection, storage and transport



Sustainable packaging solutions for an **environmentally friendly** future.

Whatever delicate products you want to pack and whatever your logistical requirements are, we develop the appropriate transport packaging made from structured core panels and twin-wall sheets. From idea to series production, all processes are carried out in-house – quickly, efficiently and in the highest quality.

Our packaging ranges from simple interlayers, folding boxes, reusable and stacking boxes, cage pallet linings and pallet sleeves to tailor-made and bespoke packaging systems. All products are also available in an ESD version.



Interlayers

Interlayers make it easy to separate, stack and stabilize transport goods. When combined with dividers, they are perfect for separating products within a load carrier. Available in different variants, sizes, grammages, material thicknesses and colours.

- + Interlayers made of PP twin-wall sheets
- + Support plates with PE foam mounts
- + Layer pads for pallets



Inserts

Customized inserts allow components to be transported contact-free in a standard container. Product-specific mounts ensure that parts are securely held in place. Depending on requirements, a combination of PE foam mounts and deep-drawn inserts is possible.

- + For Euronorm containers
- + For small load carriers (e.g. VDA KLT Box)
- + For large load carriers and pallet boxes

Folding boxes

Twin-wall sheet folding boxes are our solution for shipping small parts. They are usually made from one piece, with the base and lid formed by tuck-in flaps. Compared with disposable boxes, they are stable, abrasion-resistant and reusable.

- + In accordance with FEFCO code
- + Individual construction



Returnable boxes

Returnable boxes made from PP twin-wall sheets stand out for their moisture- and weather-resistance, among other things. They serve as a sustainable alternative to cardboard boxes for transport and shipping. Individual returnable boxes on request.

- + Wardrobe moving box with rail
- + Large and compact moving boxes
- + Transport case for monitors, paintings, etc.



Light load carriers

Light load carriers are customized packaging systems for delicate and fragile parts. For the best possible product protection, the interior of the load carriers is 100% adapted to the component and the logistical processes.

- + For manual handling
- + For automated handling



Customer-specific product examples



Stacking boxes

Stacking boxes made from PP twin-wall sheets are suitable for any industrial and commercial environment. They can be supplied in almost any size, with aluminum or plastic stacking profiles, open or closed handles, and many other equipment options.

- + Rigid stacking boxes
- + Foldable stacking boxes



Pallet frames and sleeves

We offer practical pallet frames and sleeves made of structured core panels (PP trillaminate) or solid plastic (HDPE) for wrapping Euro pallets. The sleeves not only protect the products from damage, but also keep out dust and dirt.

- + EuroSleeve LIGHT
- + EuroSleeve HEAVY
- + Custom-made sleeves



Cage pallet linings

Cage pallet linings turn conventional pallet cages into multifunctional load carriers. They protect the transported goods from dust, moisture and prying eyes. At the same time, the linings prevent individual products from falling out through the mesh.

- + For DB Europool pallet cages (standard)
- + For pallet cages in other sizes
- + For cage sleeves



Fig. 1: Stacking box with foam insert and fleece-laminated cover

Fig. 2: Volume-reducible load carrier with plugged foam mounts and fleece-laminated dividing elements

Fig. 3: Stacking boxes in a rollable steel container



Fig. 4: XXL stacking box with hinged lid and viewing window

Fig. 5: Shelf divider with intermediate shelves made of double-walled PP trillaminate

Fig. 6: Stacking box with aluminum stacking profile and foam strips

Fig. 7: Volume-reducible textile divider in MegaPack GAMMA



Switch now

To sustainable packaging systems
made from structured core panels
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**If you have additional questions about our packaging solutions,
please do not hesitate to contact us.**

Our experts will be happy to provide consultations and work with you to develop the
right reusable polypropylene packaging system for you.



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Everything about our company,
our products and services.

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