



Inspired packaging.



A world of difference.



Graphic
Packaging
INTERNATIONAL

Introducing the PaperSeal® MAP Tray

THE GREEN SMART GENERATION

Our innovative PaperSeal® Modified Atmosphere Packaging (MAP) tray offers brands and retailers the opportunity to replace traditional plastic trays with a patented, barrier-lined paperboard alternative. The development of the PaperSeal food tray solution aligns with our Vision 2025, leveraging our industry-leading sustainability profile to expand and improve packaging solutions for our customers, while reducing the impact on the environment.

We understand that the transition to fiber-based packaging is now a priority for many of our customers, and it's clear that sustainable paperboard packaging solutions must meet the functionality and performance of existing tray designs.

Developed in partnership with G. Mondini, world-leaders in tray sealing technology, PaperSeal trays offer an effective and sustainable alternative to traditional plastic trays.

PaperSeal MAP Tray Features & Benefits

SAFETY

- State-of-the-art seal integrity equal to traditional plastic trays.
- The hermetically-sealed tray ensures product stays fresh, with shelf life equivalent to a plastic tray.

FLEXIBILITY

- Availability of different liners and paperboards offers technical solutions to suit any product.
- Designed for Modified Atmosphere (MAP) and Vacuum Skin Packaging (VSP) applications.
- Recommended for fresh and processed meats and fish, chilled and frozen meals, cheese, salads, sauces and fresh fruit.

SUSTAINABILITY

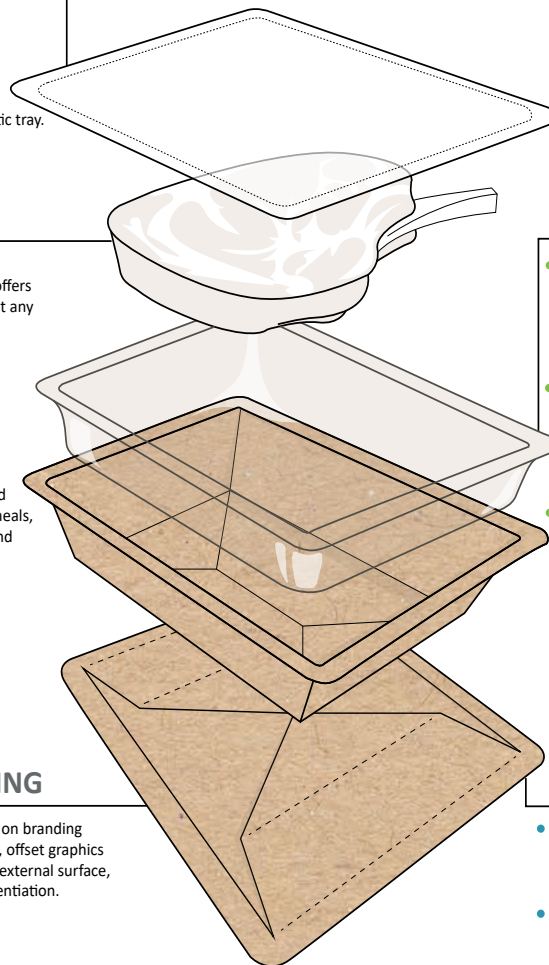
- Because the body of the tray is made from paperboard, PaperSeal® trays typically use 80-90%¹ less plastic than traditional trays, depending on application.
- The film liner can be easily separated from the paperboard after use so that the paperboard portion of the tray can be recycled, contributing to a circular economy.
- The paperboard is produced from renewable fiber, sourced from sustainably-managed forests.

FULL BRANDING

- The pack offers flexibility on branding formats with high quality, offset graphics on both the internal and external surface, delivering on-shelf differentiation.

EFFICIENCY

- The tray can be supplied flat, resulting in lower transport and storage costs compared to pre-made trays.
- Liner forming with Zero® waste technology reduces cost of final product.
- Reduced inventory with availability of smaller purchase quantities.



¹ Plastic reduction figures are for the tray and exclude the lidding film, which is not supplied by Graphic Packaging but is expected to be similar to film used for current trays. Each PaperSeal tray is specified on a case-by-case basis to minimize plastic content, at levels even below 10% where possible.

The PaperSeal® Tray Manufacturing Process

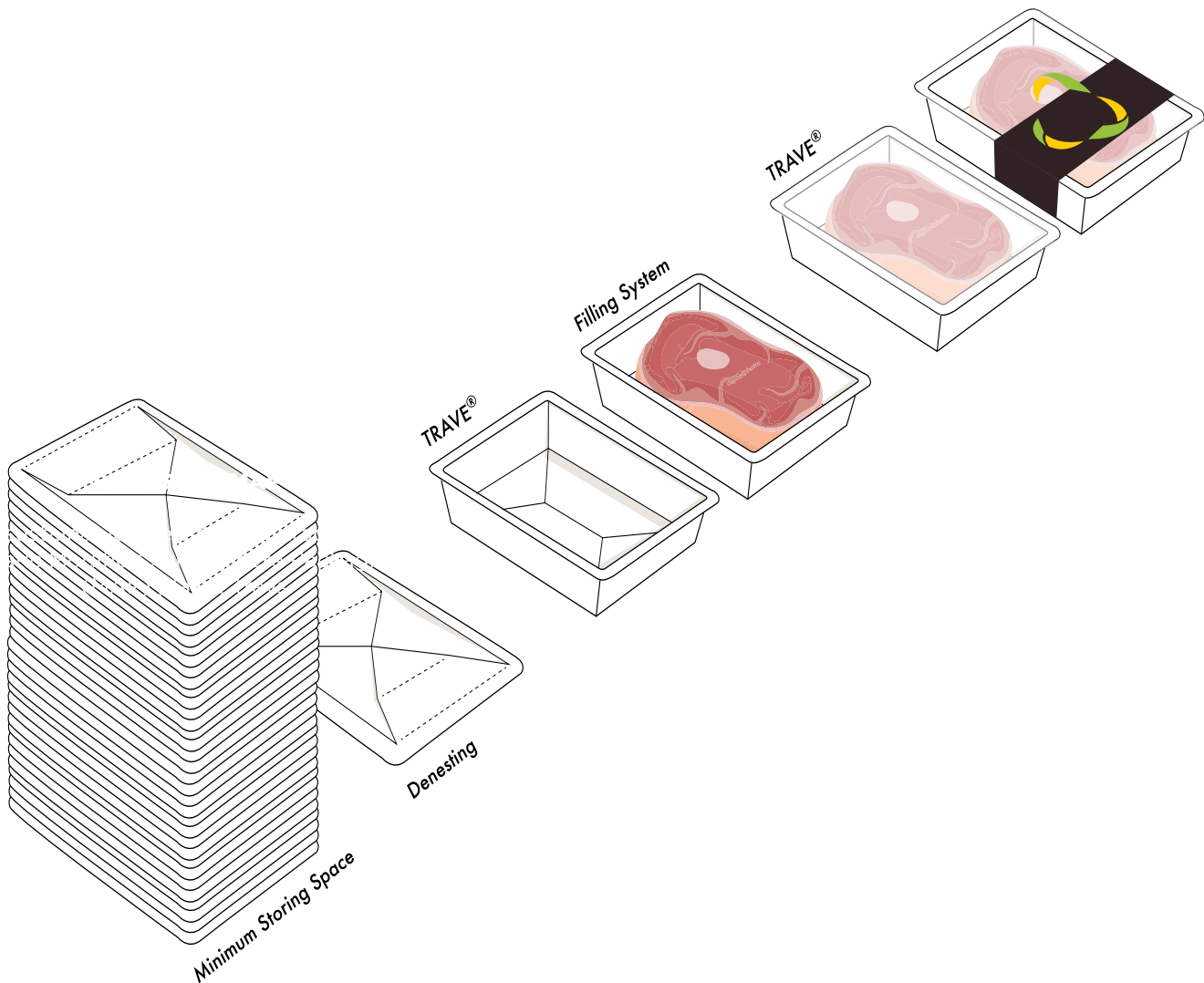
The process involves fabricating a tray from a pre-cut, flat paperboard blank which is then formed and a barrier liner applied.

The system is based on the same benefit stream as Thermosealer™ technology, where the fabricating of the trays is performed directly before the sealing process.

PaperSeal trays can be supplied to customers as flat blanks or pre-formed trays. Graphic Packaging has manufacturing facilities and partners around the globe who are able to supply the pre-formed trays.

Improved Sustainability Credentials via Zero® Technology

Zero® technology can be offered to eliminate plastic film waste during the manufacturing process.



PaperSeal® MAP

The PaperSeal MAP is a fiber-based tray technology for fresh and processed meat and fish applications, as well as salads, fruit, dips etc.

It offers a sustainable alternative to traditional plastic MAP trays, delivering a plastic reduction of 80-90%.

The tray has a unique construction which delivers increased rigidity and is formed from a single piece of paperboard, requiring no folding or gluing.



The film liner can be easily separated from the paperboard portion of the tray, promoting easy recycling.

The paperboard is produced from renewable fiber that has been sourced from sustainably-managed forests.

The packs offer differentiation on-shelf thanks to the high quality offset graphics which can be printed on both the internal and external surface.



Other products in the PaperSeal Tray Range:



PaperSeal® Cook

A sustainable alternative to traditional plastic meal trays, delivering a plastic reduction of up to 80%.



PaperSeal® Skin

A sustainable alternative to Vacuum Sealed Packaging (VSP) plastic trays, delivering a plastic reduction of 80-90%.



PaperSeal® Slice®

A thermoformed tray alternative for sliced meats and cheeses, delivering a typical plastic reduction of 75%.



PaperSeal® Wedge

A thermoformed tray alternative for sliced meats and cheeses, delivering a typical plastic reduction of 80%.

PaperSeal®: A sustainable, effective and flexible solution to support your sustainability goals.



Offers a sustainable alternative to traditional plastic trays, typically with 80-90% less plastic¹ across the PaperSeal range.

Delivers a 34% reduction in greenhouse gases and a 40% reduction in energy consumption versus an equivalent rigid plastic tray².

Easy separation of paperboard and liner promotes easy recycling.



Delivers an enhanced consumer experience, with excellent sealing integrity and a shelf life equivalent to traditional plastic trays.

High quality graphics on the internal and external surface deliver on-shelf differentiation.



Operational efficiency is optimized thanks to efficient design, which provides an easy to handle solution that can meet the demands of high-speed food manufacturing lines.

Paperboard Sustainability: Did you know?

Our paperboard is sourced from wood fiber, a naturally-renewable resource from forests which are sustainably managed, with Chain of Custody traceability.

Between 2005 - 2020, European forests grew by 58,000 square kilometres; that's an area larger than Switzerland³.

One-third of the U.S. is forested and there are 20% more trees than there were nearly 50 years ago. More than one billion trees are planted in the United States each year⁴.

The paper and paperboard recycling rates in Europe (84.2%) and the US (66.2%) are higher than any other packaging material⁵.

¹ Plastic reduction figures are for the tray and exclude the lidding film, which is not supplied by GPI but is expected to be similar to film used for current trays. Each PaperSeal tray is specified on a case-by-case basis to minimise plastic content, at levels even below 10% where possible.

² Savvypack, 2019.

³ Forest and Agricultural Organisation of the United Nation.

⁴ American Forest & Paper Association.

⁵ Eurostat/American Forest & Paper Association.

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