

UPM **BIOFORE**
BEYOND FOSSILS



SHRIMP

SEAS

HELP MITIGATE CLIMATE CHANGE

UPMRAFLATAC RAFNXT+
The world's first label material
verified by the Carbon Trust
to enable positive climate a

Printed on Raflacat Board M



Differentiate your packaging

Guide to full wrap with self-adhesive labeling

Labeling a smarter future



Find the right solution for your brand at
upmraflatac.com

UPMRAFLATAC

FOR YOUR FULL WRAP SOLUTION

With full wrap labeling, also called D-labeling, a label encloses four sides of a pack, similar to a banderole. Thanks to this, full wrap labeling contributes significantly to increasing the attractiveness of these packs at the point of sale.

Multivac, one of the world's leading manufacturers of integrated packaging solutions for food, non-food as well as pharmaceutical products and medical devices, and UPM Raflatac, a leading global supplier of pressure sensitive labeling solutions, have been working together to provide this full wrap solution for you.

Self-adhesive full wrap solutions open up a world of label shapes and materials. Full wrap labels are ideal for several types of packaging for food products, such as vacuum skin packs, thermoformed MAP packs, and trays and clamshells in a wide variety of shapes and materials.

UPM Raflatac label materials have been tested on Multivac's PSA (pressure sensitive adhesive) full wrap machinery to ensure efficient application with a variety of different possibilities. With the same machinery you can also do C-labeling or apply a top label.

Full wrap simply means more flexibility in design and application variety.



UPMRAFLATAC



DIFFERENTIATE YOUR FOOD PRODUCTS WITH US

Sustainable package design

UPM Raflatac label materials are sourced responsibly and with the 3 R's in mind: Reduce, Renew, Recycle. They allow you to reduce packaging waste at the consumer end, utilize renewable sources, lower the GHG emissions impact, and go beyond fossils.

Streamline your production

You can increase your efficiency too! Resource-efficient solutions, like RAFNXT+ or PP Lite, allow more labels on a reel with the same reel diameter. Efficiency can be gained by fewer reel changes, a possible faster application speed, or simply when switching from a manual application (e.g. with high grammage carton sleeves) to automatic, with the full wrap labeler. PSL technology does not require cutting at the point of labeling, which reduces process risks and cleaning needs at the packaging line. In addition, it can increase your control over the total costs.

Keep your brand safe

Our materials live up to the highest food safety standards, follow GMP rules, as proven by our ISO22000 certificates, and utilize our BioFore concept to remain in a leading position in the fields of safety and sustainability. We utilize our global service with local support to meet your individual needs, wherever you are based.

Shorten time to market

Full wrap labelers use PSL technology, which is usually available on demand. In combination with the flexible labeler set-up, it offers you a chance to cut the time it takes for your brand to make it to the market.

You decide the shape and design of your label.



CONSUMERS WILL ENJOY YOUR FULL WRAP LABELED FOOD

By choosing full wrap with self-adhesive labels, you will join the platform to innovate extra features for consumers.

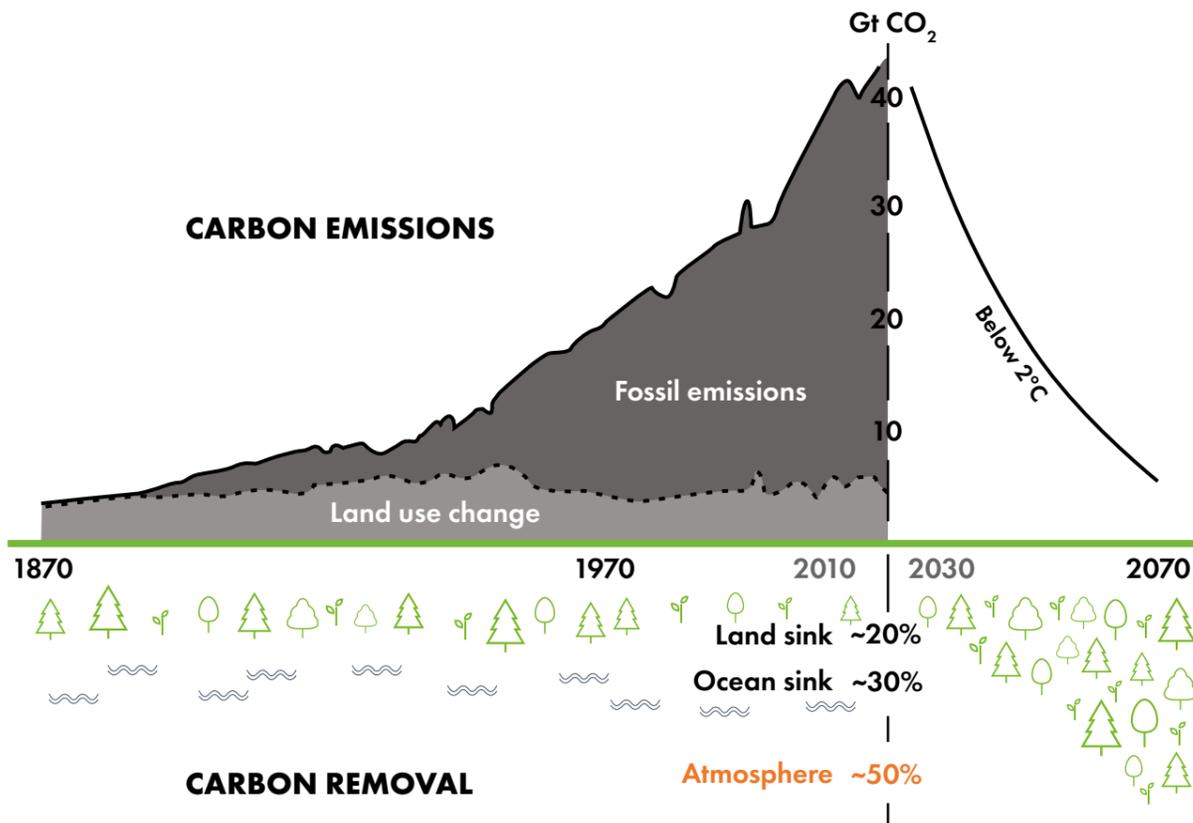
- Design both sides with readable labels and let the consumers experience your brand without opening the food package.
- Perforate the full wrap and make the packaging easy to open. Perforated full wrap labels can also be used to help opening packages such as clamshells.
- Or, add a tamper evident functionality, so that consumers can see if the package was manipulated.
- Great shelf appeal and lower package waste compared to heavy cardboard sleeves.



TAKE POSITIVE CLIMATE ACTION FOR YOUR FULL WRAP LABELS WITH RAFNXT+

The world's first labeling material verified by the Carbon Trust to reduce your carbon footprint and help mitigate climate change.

Global challenges and consumer demand call for climate actions and smart choices. Embrace the challenge with RAFNXT+, differentiate and help your customers reach their sustainability targets. We use a science-based approach to quantify the positive impact you will make by choosing RAFNXT+ labeling materials. The range includes solutions for a variety of applications.



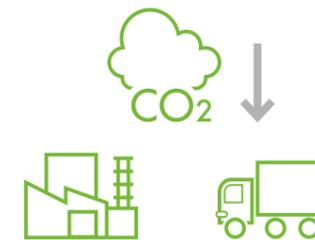
CHOOSE RAFNXT+ FOR YOUR FULL WRAP LABELS TO RENEW, REDUCE AND RECYCLE

- Use renewable products from sustainable sources
- Reduce the pressure on natural resources
- Enable the circular economy



The Carbon Trust is the world's leading independent partner working with companies around the world toward carbon reduction, resource efficiency strategies and commercializing low carbon technologies.

REDUCE CARBON EMISSIONS



RAFNXT+ product design reduces manufacture and transport emissions (LCA).

INCREASE CARBON REMOVAL

Smarter use and choice of materials increases the capacity of the forest to mitigate climate change.



RAFNXT+ = POSITIVE CLIMATE ACTION

We have studied and verified our FSC source forests are carbon sinks.



Source: UPM based on IPCC, Global Carbon Project

REACH PURE CIRCULARITY WITH RAFCYCLE

RafCycle® by **UPM** Raflatac

With our RafCycle service, you can recycle your label release liner waste and contribute to the circular economy.

RafCycle takes self-adhesive release liner waste and gives it new life as for example label release liner and magazine paper, therefore closing the loop.

WHAT'S THE BENEFIT OF RECYCLING 100 TONNES OF PAPER LINER WASTE?

1300

trees* are made available for other uses

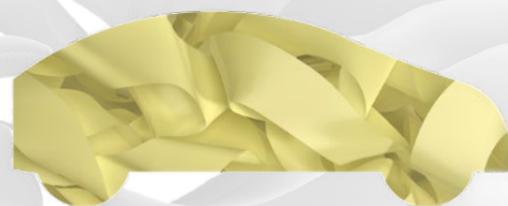
*at an average 0.25m³



164

tonnes of fossil CO_{2e} emissions are avoided

compared to landfill



Scope: GWP 100 years (excluding biogenic carbon), analysis of different End of Life scenarios: recycling (mechanical) vs incineration vs landfill. The comparison includes the avoided emissions from paper making process for recycling, from energy and electricity production for incineration and from emissions of paper degrading in landfill.

Based on: UPM Raflatac's LCA study, externally verified and performed in accordance with ISO 14040/44 and PAS 2050 standards. Results are indicative and information is subject to change without notice. Results of different LCA or carbon footprint calculations cannot be compared.

LABELING MATERIAL OPTIONS

UPM Raflatac offers a wide range of self-adhesive materials that, together with different adhesives, create a variety of labels suitable for full wrap labeling. Full wrap labeling is a fresh alternative to labeling technologies such as slideable cardboard banderoles, linerless labels, or standard top & bottom labels. Let's find a solution that suits your packages and circumstances.

PAPERS & BOARDS	FILMS	ADHESIVES
<ul style="list-style-type: none"> • Uncoated and coated • Different grades of rigidity • Textured and smooth appearances • Direct thermal printability option 	<ul style="list-style-type: none"> • Clear and white • PP and PET • Matt, glossy and pearly appearances 	<ul style="list-style-type: none"> • Ideal solution for different applications • Selection from deep-freeze to ambient temperatures • Acrylic and hotmelt options for different materials • Permanent, removable and recycling enabling options

ENSURING FOOD SAFETY AND LEGAL COMPLIANCE

We have developed materials for food labeling applications where both the technical product performance in the applications and also the regulatory requirements have been taken into account.

We can support you with global and local compliance. Contact our food labeling experts for further information about compliance or to receive a copy of our individual Declaration of Compliance (DoC) documents with information about the product components.

Visit upmraflatac.com/food-safe-labeling to learn more about our food safe labeling practices.

UPM Raflatac is the first self-adhesive laminate supplier to have all factories in Europe, the Americas and China certified according to the ISO 22000:2005 food safety management system standard. This certificate assures that the products are designed and manufactured according to a Food Safety Management System which gives proof of compliance to the Good Manufacturing Practice (GMP) regulations and standards globally related to products intended to become part of food packaging, e.g., EU No. 2023/2006, U.S. FDA CFR Title 21, Part 110 or China GB 31603-2015.

LABELER



OPTIMUM RESULTS FOR LABEL LENGTHS UP TO 500 MM

With its L 310 Full Wrap Labeler, MULTIVAC offers a robust and low-maintenance conveyor belt labeler for high outputs of up to 150 products per minute. The label dispenser enables label lengths of up to 500 mm to be run, so that a 360° wrap-around can be achieved, as well as overlapping ends of the label. Precise guidance of the packages and a servo-driven press-on unit ensure maximum accuracy.

The height of the label dispenser is ergonomically adjusted from the front of the unit to accommodate various packaging sizes. The labeler can either be used as a stand-alone solution or seamlessly integrated into a packaging line which enables automation of many tasks, such as loading of parameter settings or print layouts.

GREAT FLEXIBILITY THANKS TO A WIDE RANGE OF EQUIPMENT OPTIONS

Thanks to its modular design, the Full Wrap Labeler offers a high level of flexibility to fulfill a variety of tasks. As an example, it can be equipped with further label dispensers for the application of top or bottom labels. Also a blow-on applicator, which is used to apply promotional labels without contact to delicate products or into the base of skin packs, can be integrated.

The MULTIVAC Full Wrap Labeler also offers users the benefit of complete printer integration. This makes it easy to configure the printer parameters as well as assigning and automatically loading the print layouts from the MULTIVAC recipe. Operating errors can be prevented, while downtime is reduced and batch changes can be handled faster.

The integration of inspection systems for checking label and print presence and correctness also contributes to greater reliability of the labeling and packaging process.

You can keep your full wrap label simple, or you can utilize the many amazing opportunities to create a real premium packaging labeling.

LET'S WORK TOGETHER!

The MULTIVAC L310 Full Wrap Labeler is designed for pressure sensitive labels with carrier backing and tested with UPM Raflatac label stock materials. Thousands of label printers are able to print and convert your full wrap labels. This allows you look together for new label solutions and build a strong platform for innovations. On top of that, there are no specific investment needs for the printing and converting equipment.

Self-adhesive technology also increases efficiency of the labeling process. Raflacoat Board NXT+ offer at 130 g/m² similar haptics as a linerless material with a grammage of 170 g/m², and the number of labels per roll is up to 30 percent higher. This reduces the number of roll changes and ensures less downtime. Additionally, no manual application is needed.



GET IN TOUCH

To receive tailored guidance about full wrap labeling, please contact your local sales representative directly or reach out to us to [book a meeting](#).



www.upmraflatac.com