

BELTS AND SHEETS FOR **THERMAL LAMINATION**

RELEASE SOLUTIONS FOR
AUTOMOTIVE COMPOSITES

Partnerships that inspire.
Materials that perform.



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RELEASE SOLUTIONS FOR AUTOMOTIVE COMPOSITES

Thermal lamination is a highly versatile process used to produce a wide range of lightweight interior car components. Compatible with nearly all types of substrates and adhesives used, Versiv release solutions maximise the output and machine productivity.

The high-volume production of organo sheets and décor material manufactured in the process requires flexibility in handling different types of substrates and makes Versiv processing aids a key contributor for seamless lamination operations.

Used as release sheets and conveyor belts, these PTFE coated fabrics have excellent temperature and abrasion resistance. Where often the biggest challenge is preventing line stoppages and machine downtime for cleaning off the residue from molten resins, they ensure that the process flow is uninterrupted. The risk of defects and yield losses is reduced to a minimum as a result.

ENSURING CONSISTENT PRODUCTION

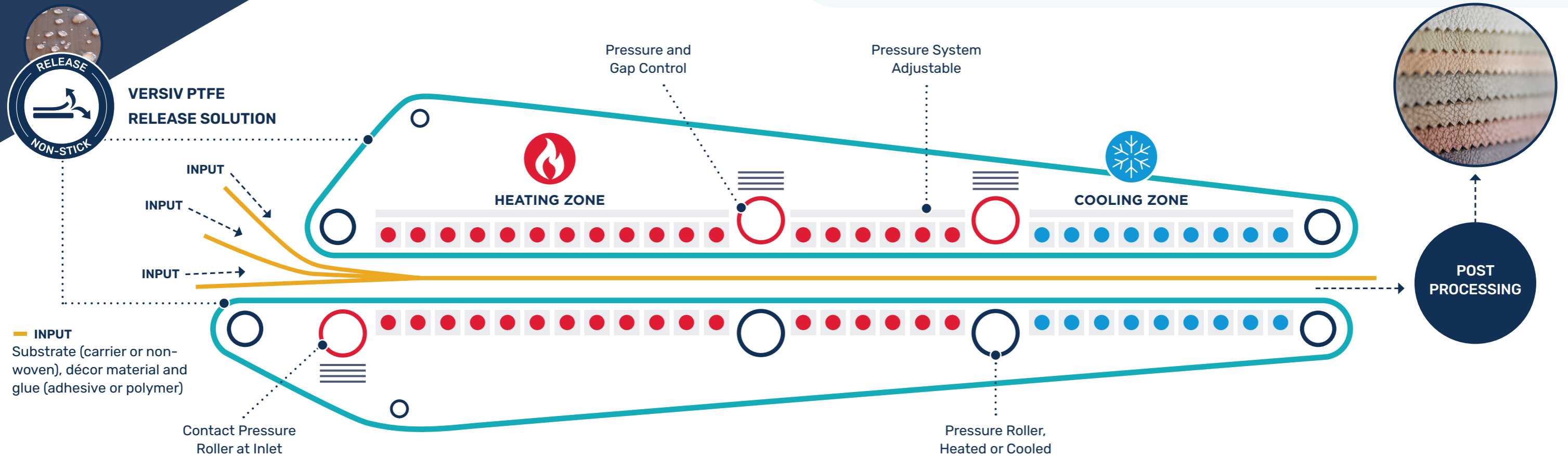
In the process of thermal lamination, Versiv belts enable transport and pre-heating of automotive components. Mechanically stable, they retain their dimensional properties and shape at even high tension and temperature.

Used by customers who want continuous production, these products have consistent heat conductivity and provide easy release at each stage of the component-making process. They eliminate the need to use silicone and fluoro-polymer-based spray coatings on the belts, which can be difficult and time consuming to apply in a controlled manner. Versiv Release Solutions are your working surface, giving long lasting and controlled release properties until end of life. Supplied in rolls of fabric, cut-to-size sheets or provided as continuous process belts, they are easy to install and remove by operators or maintenance personnel.

HIGHER QUALITY FINISHES

Thermal and mechanical stability of Versiv conveyor belts means that the components can be processed at high-speed and pressure in a continuous process. With no interruptions to the flow of lamination, this ensures a high quality finish and reduces the occurrence of scrap and rework.

Perfect product appearance is vital especially for décor applications. Extra smooth and hard wearing, Versiv PTFE coated fabrics do not leave an imprint on processed surfaces. This makes the required result of defect free surface more achievable.



IMPROVING PRODUCTIVITY

In terms of the types of products processed, thermal lamination can be considered a constantly changing environment. Non-stick and chemically inert, Versiv release solutions allow processing of nearly every different combination of substrates and adhesives on one line using the same transportation belt. By retaining their PTFE non-stick surface performance, Versiv products help you to avoid any material

transfer between batches. This reduces the need for stoppages for cleaning, which in turn means faster turnarounds and higher production volumes. Their ability to perform reliably over lengthy periods in a sticky and harsh environment means that process efficiencies and productivity can be improved, reducing the cost of a final component.

OPTIMAL RELEASE

During the thermal lamination process, different products, such as substrates, décor materials, molten polymers and adhesives are combined in-line to produce a component part. In this aggressive and sticky environment, Versiv release solutions are used as conveyor belts that carry the heavy load at high-speed and high temperatures.

The non-stick PTFE surface ensures that the final product – either organo sheet or décor material – releases perfectly from the belt. Defect free and smooth, Versiv coated fabrics offer long lasting release and minimise the risk of unplanned downtime, when residue from a previous batch requires a clean-up.

CUSTOMER INSIGHTS

We listen to our customers and work in partnership with them. Customer feedback has indicated the number one advantage of Versiv Release Solutions is the consistency of performance over long periods of time.

Versiv Release Solutions are fluoropolymer-based composites reinforced with a woven fabric, usually glass or aramid. The extra smooth and highly consolidated fluoropolymer surface means that hot oils, molten polymers, or chemicals cannot attach or anchor to the surface. This property leads to longer-lasting release performance.

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Versiv is a recognised expert in high-performance, technology-driven, fluoropolymer-based materials and customised solutions. With over 40 years' experience, our films, fabrics, tapes and multimaterial composites are highly regarded in various B2B industries, with renowned companies among our clients.

Our specialty offering meets the diverse needs of customers seeking high-performance materials, that take on demanding tasks, in providing everything from safe and protective barriers, easy-release surfaces, dielectric insulation and friction control.

We adapt to make even more possible. Our collaborative, co-partnership approach inspires the success of our customers and the evolution of our capabilities, enabling us to deliver top-notch, off-the-shelf products and co-developed solutions.

CONTACT US

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WHAT CAN BE MADE USING VERSIV PRODUCTS?

Organo sheets & décor composite for many automotive interior components and trim applications:

- Door Carriers
- Parcel Shelves
- NVH Parts
- Glove Compartments
- Door Wells
- Dashboards



VERSIV PRODUCTS OF CHOICE:

CF110, CF210, CF310

Standard products for basic requirements

SP010-2 X, CF010-2 X

Hard wearing surface to withstand abrasive conditions

CF210-2 AS, CF214-1 AS X

Smooth surface products for processes with anti-static requirements

CF110-2 TR

Tear resistant product with excellent release and extra flexibility

