



BELTS AND SHEETS FOR THERMAL LAMINATION

RELEASE SOLUTIONS FOR AUTOMOTIVE COMPOSITES

Thermal lamination is a highly versatile process used to produce a wide range of lightweight interior car components. The high-volume production of organo sheets and décor material manufactured in the process requires flexibility in handling different types of substrates and makes CHEMFAB® processing aids a key contributor for seamless lamination operations.

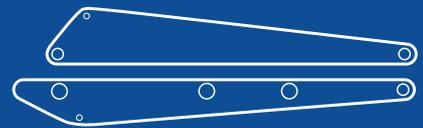
Used as release sheets and conveyor belts, these PTFE coated fabrics have excellent temperature and abrasion resistance. Compatible with nearly all types of substrates and adhesives used, CHEMFAB® release solutions maximise the output and machine productivity. Where often the biggest challenge is preventing 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 minimized as a result.

WITH OUR PRODUCTS YOU CAN ACHIEVE:

1 HIGHER QUALITY FINISHES

2 CONSISTENT PRODUCTION PROCESSES

3 IMPROVED PRODUCTIVITY AND COST EFFECTIVENESS



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, CHEMFAB® 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, CHEMFAB® coated fabrics offer long lasting release and minimize the risk of unplanned downtime, when residue from a previous batch requires a clean-up.

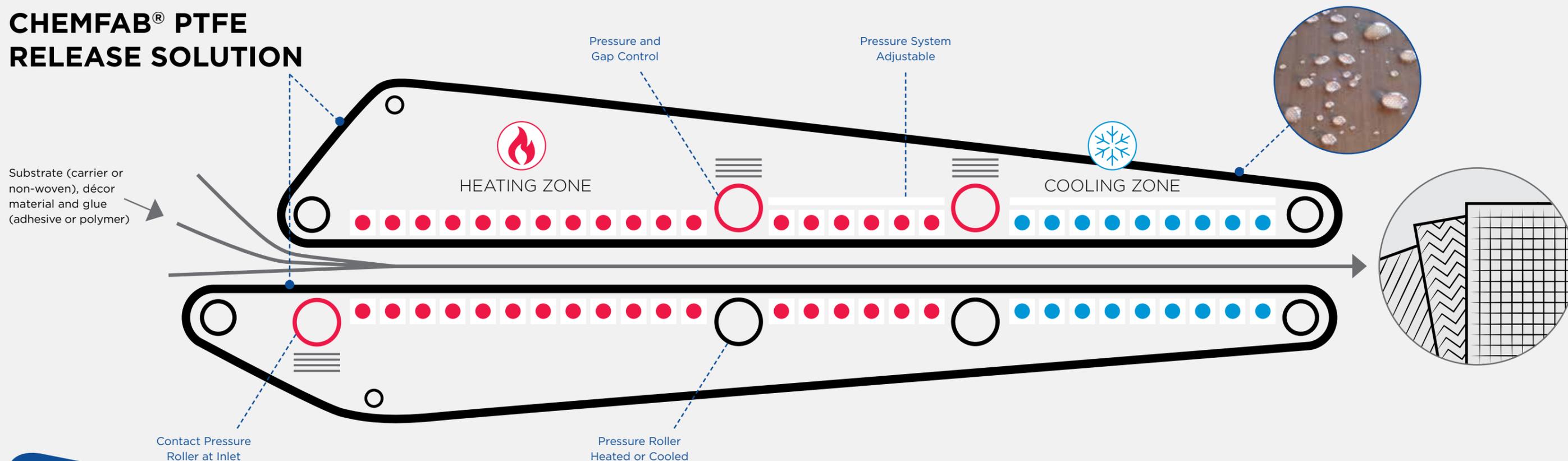
HIGHER QUALITY FINISHES

Thermal and mechanical stability of CHEMFAB® 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, CHEMFAB® PTFE coated fabrics do not leave an imprint on processed surfaces. This makes the required result of defect free surface more achievable.

CHEMFAB® PTFE RELEASE SOLUTION



IMPROVING PRODUCTIVITY

In terms of the types of products processed, thermal lamination can be considered a constantly changing environment.

Non-stick and chemically inert, CHEMFAB® 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, CHEMFAB® 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.

ENSURING CONSISTENT PRODUCTION

In the process of thermal lamination, CHEMFAB® 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 fluoropolymer based spray coatings on the belts, which can be difficult and time consuming to apply in a controlled manner.

CHEMFAB® 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.

WHAT CAN BE MADE USING CHEMFAB® PRODUCTS?

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

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



CHEMFAB® PRODUCTS OF CHOICE

CF110, CF210, CF310	Standard products for basic requirements
SPO10-2 X, CF010-2 X	Hard wearing surface to withstand abrasive conditions
CF210-2 AS, CF214-1 AS X	Smooth surface products for processes with antistatic requirements
CF110-2 TR	Tear resistant product with excellent release and extra flexibility
CF9014	Open mesh material for post-processing drying

CUSTOMER INSIGHTS

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

CHEMFAB® 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 into the surface. This leads to longer lasting release performance.

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