



# BELTS AND SHEETS FOR RUBBER PROCESSING

## RELEASE SOLUTIONS FOR AUTOMOTIVE COMPOSITES

Rubber profile processing involves a challenging operating environment to produce a range of automotive seals, predominantly used around doors and windows. With high-volumes manufactured in sequential stages of a continuous process, there is a requirement for flexibility in handling extremely corrosive chemical additives with a mix of rubber substrates.

Widely used in manufacturing of rubber profiles, CHEMFAB® belts and release sheets provide excellent release during curing and cooling of many polymeric materials such as PU, PE and PVC. The non-stick surface ensures that no compound residue is left on the conveyor belt and the surface profile of the extrudate is not compromised. Resistant to high and low temperatures and dimensionally stable, CHEMFAB® products are a reliable solution, allowing for continuous production and minimizing the risk of rubber profile rejects in the curing process.

### WITH OUR PRODUCTS YOU CAN ACHIEVE:

**1** HIGHER QUALITY FINISHES

**2** CONSISTENT PRODUCTION PROCESSES

**3** IMPROVED PRODUCTIVITY AND COST EFFECTIVENESS

### CHEMFAB® RELEASE SOLUTIONS FOR...

- Compression Moulding
- Thermal Lamination
- **Rubber Processing**



## OPTIMAL RELEASE

At the extrusion stage, the unvulcanised rubber is pushed through dies under pressure. This part of the process creates a profile which then goes via the stages of crosslinking, heat treatment and curing before it takes its final finished shape.

This continuous system, sometimes up to 40 metres long, is the route that the CHEMFAB® release solutions travel.

They act as a release surface for all the sequential processing stages, as well as the transportation surface for this heavy chemical load. These non-stick PTFE products ensure that final products release perfectly from the belt at each processing stage. Hard wearing and smooth, CHEMFAB® coated fabrics offer long lasting release and minimize the risk of unplanned downtime, when residue from a previous batch requires clean-up.

## HIGHER QUALITY FINISHES

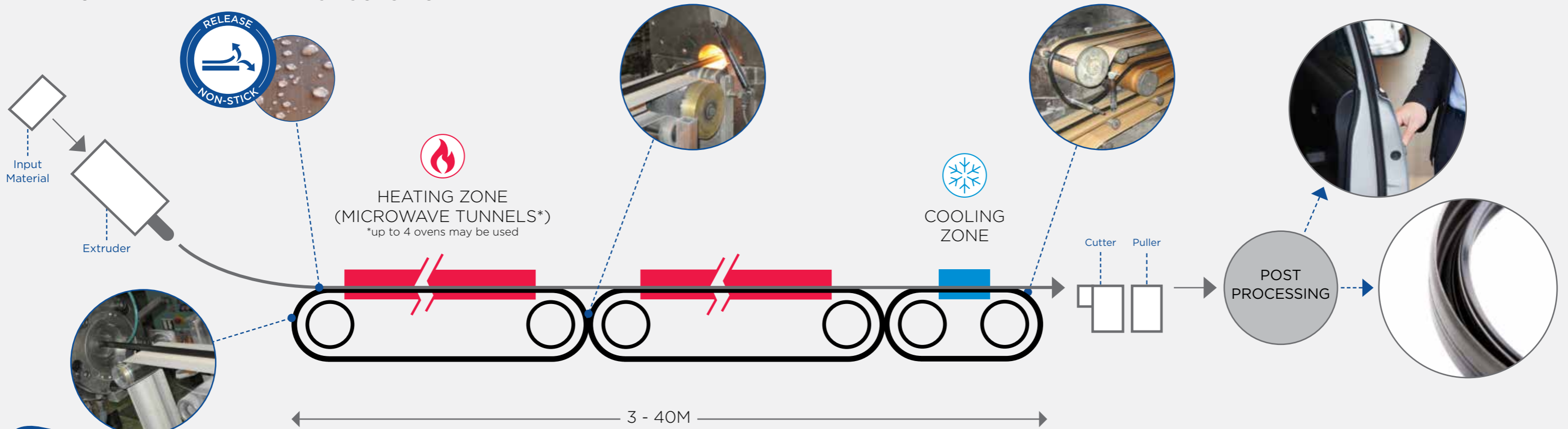
The finish quality of rubber profiles is vital - both for their performance under all conditions - and to meet ever more demanding aesthetic requirements.

Mechanical stability of CHEMFAB® conveyor belts means that the profiles can be processed at high-speed in a continuous manner. Dimensionally stable under hot and low temperatures, CHEMFAB® products allow for the expansion, shrinkage

and relaxation so the profiles are made with no interruptions to the flow. This ensures a high-quality finish and reduces the occurrence of scrap and rework.

As no compound residue is left on the working surface, the required finish of the extrudate is not compromised, while surface of the CHEMFAB® product can be adjusted to achieve desired imprint.

### CHEMFAB® PTFE RELEASE SOLUTION



## IMPROVING PRODUCTIVITY

Non-stick and chemically inert, CHEMFAB® release solutions allow processing of nearly every different combination of rubber compounds and chemical activators. Your process can therefore operate on one single line using the same process conveyor belt.

By retaining their PTFE non-stick surface performance, CHEMFAB® products secure that no compound residue is left on the belt.

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 the final component.

## ENSURING CONSISTENT PRODUCTION

Throughout all stages of rubber profile processing, CHEMFAB® belts enable the transport and release in rapidly changing operating conditions. Mechanically stable, they retain their dimensional properties and are resilient to the abrasive rubber compounds and aggressive chemicals. Used by customers who want uninterrupted production, these products have consistent heat conductivity and provide easy release at each stage of the rubber profile

manufacturing process. They eliminate the need to use silicone and fluoropolymer based spray coatings, which can be difficult and time consuming to apply in a controlled manner. CHEMFAB® release solutions can be supplied as fabric rolls, cut-to-size sheets or provided as continuous belts - easy to install and remove by operators or maintenance personnel.

## WHAT CAN BE MADE USING CHEMFAB® PRODUCTS?

- Door seals
- Window seals



### CHEMFAB® PRODUCTS OF CHOICE

CF210, CF310	Standard products for basic requirements
SP010-2 X	Hard wearing surface to withstand abrasive conditions
CLF910, CL10	Laminated products for superior release and extended durability

### CASE STUDY

MORE CYCLES. SMOOTHER FINISH. REDUCED MAINTENANCE.

By switching to a smooth and superior release CL10 laminate, our customer has reported a 47% longer life time when compared with a standard product. The reduced imprint and resulting higher quality finish of rubber profiles also meant higher production yields and reduction in maintenance time.

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