

BELTS AND SHEETS FOR **RUBBER PROCESSING**

RELEASE SOLUTIONS FOR
AUTOMOTIVE COMPOSITES

Partnerships that inspire.
Materials that perform.

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Resistant to high and low temperatures and dimensionally stable, Versiv products are a reliable solution, allowing for continuous production and minimising the risk of rubber profile rejects in the curing process.

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 the manufacturing of rubber profiles, Versiv belts and release sheets provide excellent release during the 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 that the surface profile of the extrudate is not compromised.

ENSURING CONSISTENT PRODUCTION

Throughout all stages of rubber profile processing, Versiv belts enable the transport and release in rapidly changing operating conditions. Mechanically stable, they retain their dimensional properties and are resilient to 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.

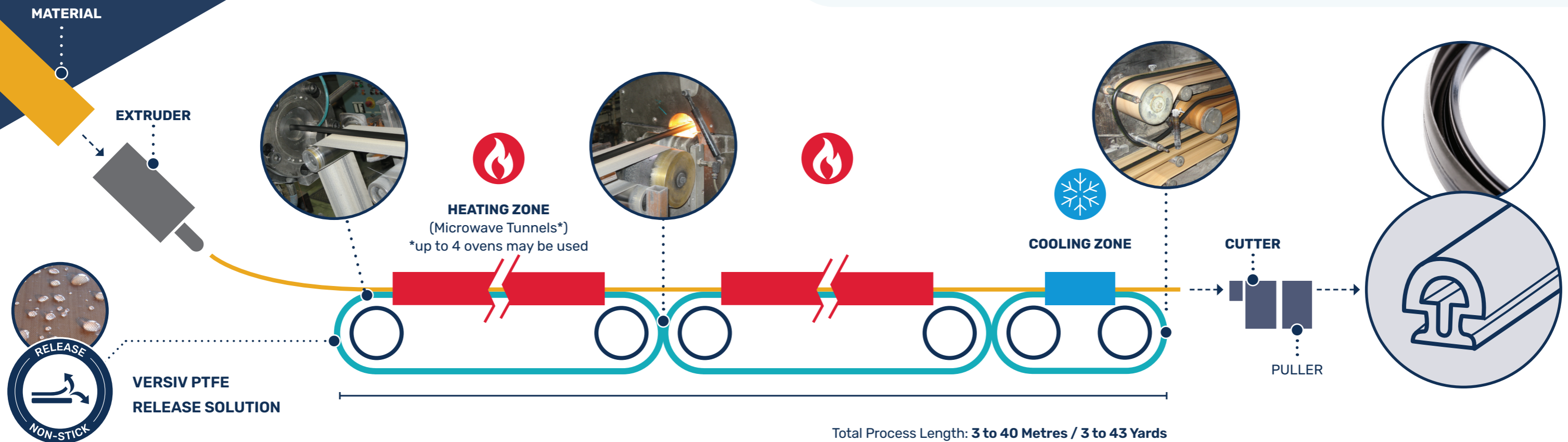
Versiv release solutions can be supplied as fabric rolls, cut-to-size sheets or provided as continuous belts – easy to install and remove by operators or maintenance personnel.

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.

The mechanical stability of Versiv conveyor belts means that the profiles can be processed at high-speed in a continuous manner. Dimensionally stable under hot and low temperatures, Versiv products allow for 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 the surface of the Versiv product can be adjusted to achieve the desired imprint.



IMPROVING PRODUCTIVITY

Non-stick and chemically inert, Versiv 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, Versiv 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.

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

CASE STUDY

47X LONGER LIFE TIME

More Cycles. Smoother Finish. Reduced Maintenance.

By switching to a smooth and superior release Versiv CL10 laminate, our customer has reported a 47% longer lifetime 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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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?

- Door seals
- Window seals



VERSIV PRODUCTS OF CHOICE:

CF110, CF210

Standard products for basic requirements

SP010-2 X

Hard wearing surface to withstand abrasive conditions

CLF910, CL10

Laminated product for superior release and extended durability

