

Gottlieb Binder GmbH & Co. KG
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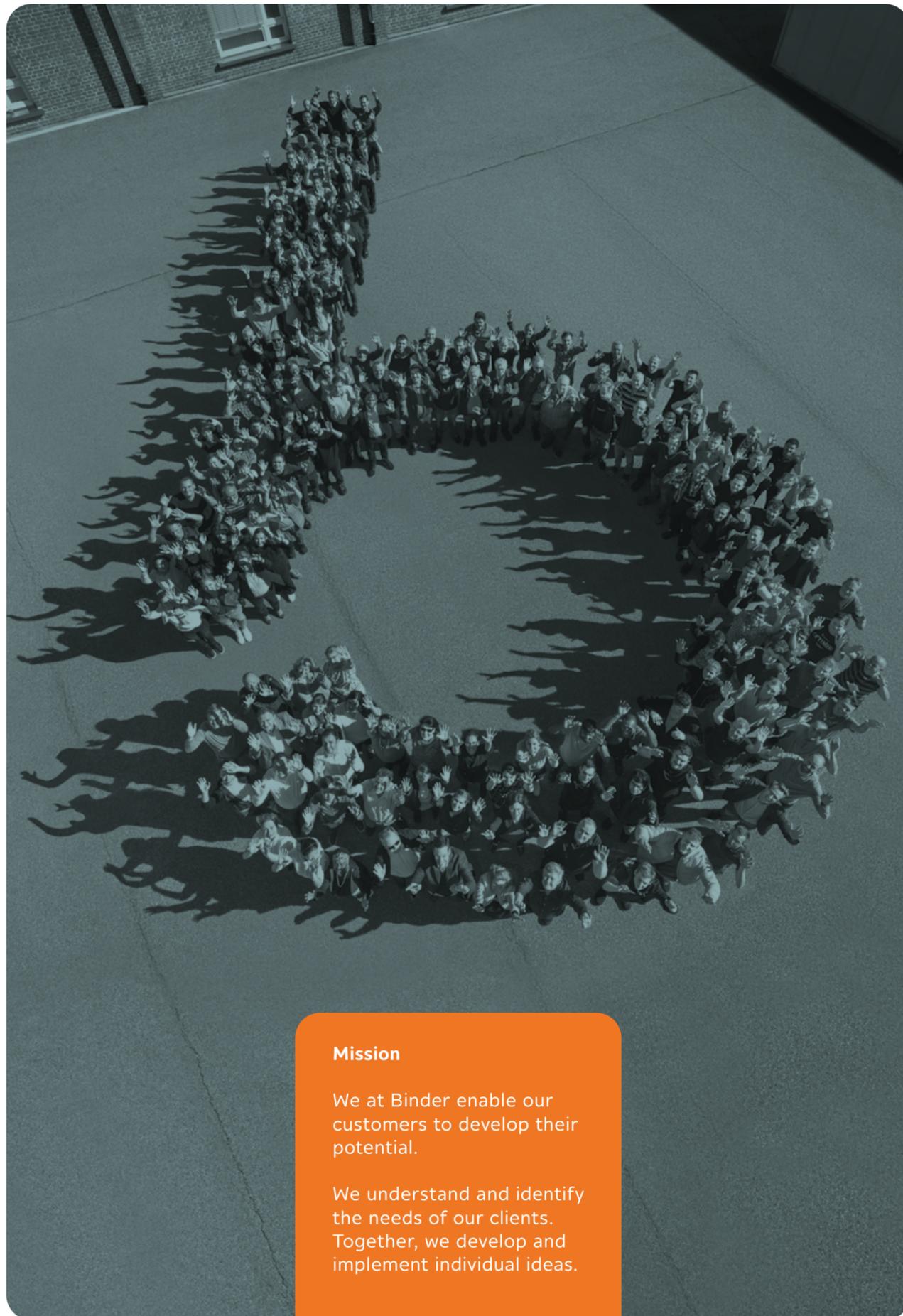
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■ Customised fastening solutions: repositionable and reclosable

Love is when it is sustainable

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Mission

We at Binder enable our customers to develop their potential.

We understand and identify the needs of our clients. Together, we develop and implement individual ideas.

■ Your success starts with our solutions

More than two centuries ago, in 1798, the impressive story of our family business began in Holzgerlingen, Germany. To this day, we at Binder are highly ingenious and we place great emphasis on quality and durability. We also have a certain penchant for perfection.

Our numerous developments and patents as well as our continuous search for innovative solutions are why we've risen to become a technology leader for high-tech fastener systems over the last two centuries. We are constantly expanding our innovative edge by relying on our own research and development and we collaborate with leading research institutes and universities. We develop and produce exclusively in Germany.

To us, our customers' tasks are an exciting challenge that we take on with a great deal of commitment, know-how and passion. Our goal is to enable companies in every industry to develop their potential with our fastening solutions and to differentiate themselves in the market.

” **What started as a simple idea now opens up entirely new dimensions. We pride ourselves on meeting our customers' challenges with a diverse range of fastening solutions. Individual, tailor-made, for every industry.**



Patrick Geffers Managing Director

■ The next step to sustainable diapers

As a baby needs around 5000 diapers until it is potty trained – which generates about a ton of waste – sustainable solutions are sorely needed. Our answer to this challenge is both safe and saves resources.

We have developed Microplast®, an ultra-thin micro-extruded hook fastener especially for baby diapers and incontinence products, and have continued to optimise it over 25 years, making it thinner, lighter and more material-efficient. In 2021 we launched the Binder BioHook® for the personal care industry, a biodegradable hook fastening solution. This is a crucial detail that allows diapers to become one with nature again after usage.

Two types of sustainable hook fasteners are available: a bio-based version by applying the already well-known use of PLA materials based on lactic acid compounds and a biodegradable version employing a new and innovative technology that makes biodegradability possible in polyolefins. This technology is based on a biotransformation process that converts plastics into bioavailable substances, bridging the gap between the technological to the biological material cycle.

Of course, our hook fastening solutions made of biodegradable or bio-based materials also offer the performance and the secure hold Binder is known for, whether they are attached directly to the textile backsheet or to other standard landing zones.



Biodegradability in brief

Polyolefin-based

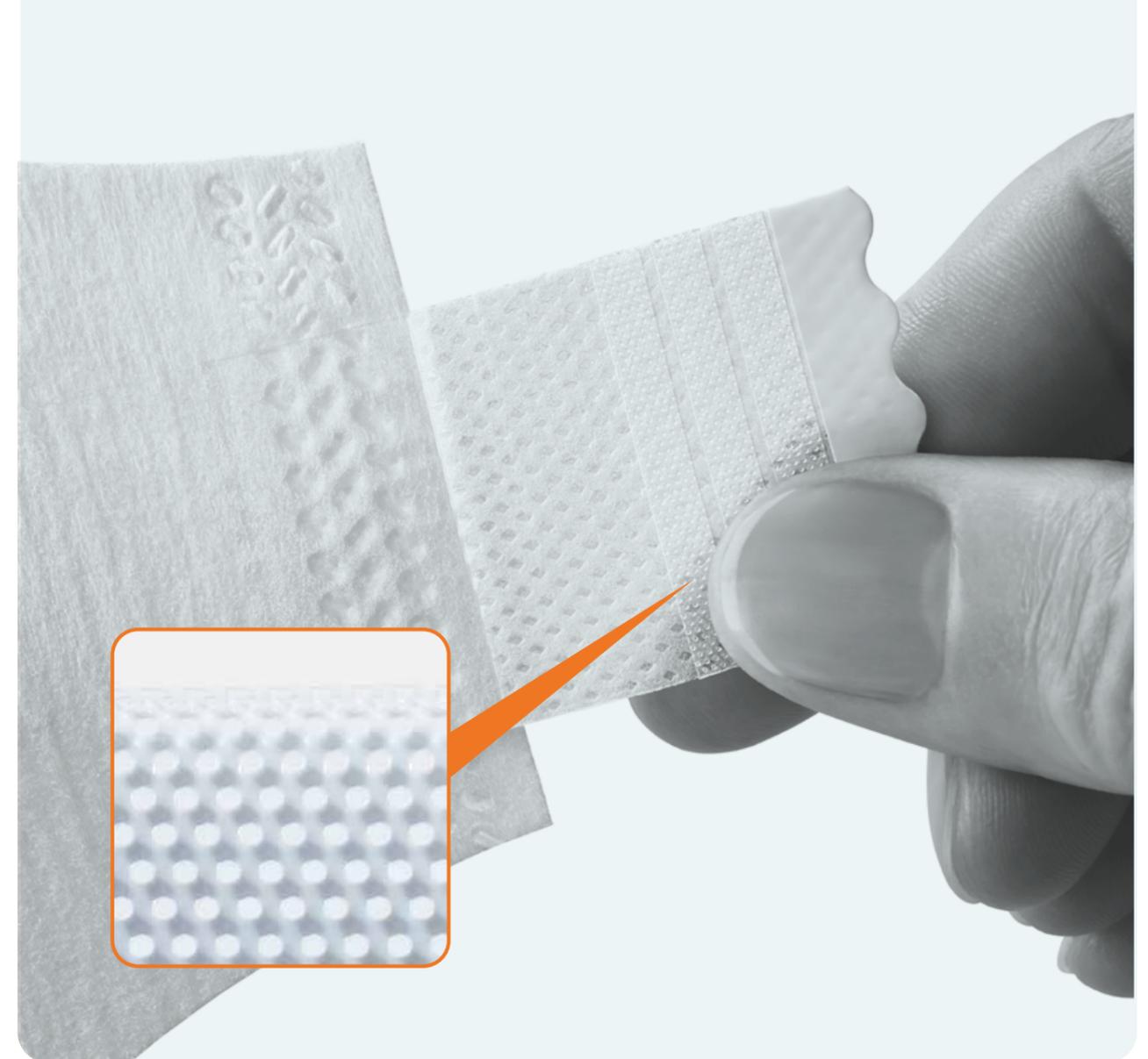
Article numbers: 92445 and 92641

Biodegradability: certified according to BSI PAS 9017:2020

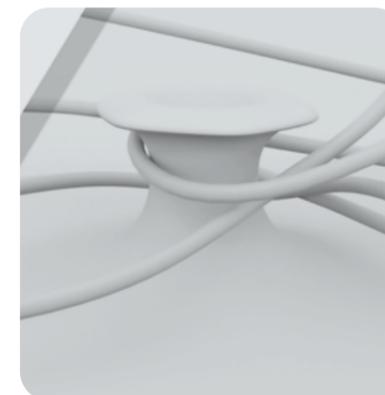
PLA-based

Article number: 61445

Biodegradability: the compound with natural mineral filler is manufactured from certified compostable plastic materials according to the EN 13432 standard.



■ Innovation down to the smallest detail



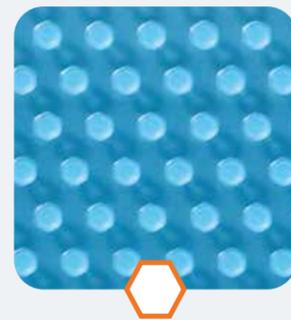
Microplast® is a hook fastener that has been specially developed for baby diapers and incontinence products, offering optimised shear and peel strength. The ultra-thin micro-extruded fastener with a three-dimensional structure is soft and flexible with the familiar reliable grip.

From nonwovens to lock loops, brushed loops and textile backsheets, Microplast® attaches to all standard landing zones.

Thanks to Binder's latest innovations, the hook fastener is also available in soft and biodegradable versions.

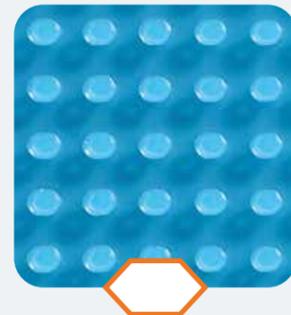
■ Universal hook or nonwoven specialist?

To satisfy the needs, developments and materials of our customers, there are two types of Microplast®:



Microplast® -445

- Symmetrical mushroom-shaped heads in a hexagonal arrangement
- Equal peel and shear forces in all directions
- Universal hooks with isotropic performance



Microplast® -641

- Elongated mushroom-shaped heads in a rectangular arrangement
- Specifically developed for nonwovens
- Improved performance in the direction of application

Our certifications



■ Our product portfolio at a glance

Item	Mushrooms/cm ²	Thickness mm	Weight g/m ²	Material
85445	288	approx. 0.30	approx. 100	PP
85641	260	approx. 0.32	approx. 100	PP
95445	288	approx. 0.30	approx. 85	PP
95641	260	approx. 0.32	approx. 85	PP
 92445	288	approx. 0.32	approx. 90	polyolefin-based
 92641	260	approx. 0.32	approx. 90	polyolefin-based
 61445	288	approx. 0.39	approx. 220	PLA-based
 98445	288	approx. 0.32	approx. 90	PP
 98641	260	approx. 0.32	approx. 90	PP

All products are available in natural colour. Other colours on request (as e.g. blue or white).

 **Biodegradable**
Binder offers two different biodegradable product types that reflect different approaches to sustainability.

 **Soft**
Binder's Microplast® Soft product line offers a special elasticity and softness.

Interested in Binder's solutions for diaper closures?

Contact us to find out more about Binder and our latest innovations.
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