

SELF-ADHESIVE POLYURETHANE FOAM GASKET



Self-adhesive polyurethane foam gasket for universal use

Are you looking for a quick and easy way to seal your components? With the self-adhesive polyurethane foam gaskets, we offer an efficient and practical solution for a wide range of applications for industrial components – from switch cabinet engineering to various applications in the automotive industry and air-conditioning technology.

As a "ready-to-use" solution, our self-adhesive polyurethane foam gasket helps in various situations: during component production or for the quick repair of a component seal directly on site.

The self-adhesive polyurethane foam gasket is available as standard in two different heights (5 mm and 8 mm) on a roll with a length of 50 meters, from which you can conveniently cut off the desired seal length, thus reducing waste to a minimum. We can also supply you with self-adhesive foam gaskets prefabricated as seamless seals, in any dimension you require.

The double-sided transparent self-adhesive strip of the foam gasket provides a strong adhesive and mechanically resilient adhesive base for almost all materials. It adheres reliably to almost all surfaces, from powder coatings to LSE (low surface energy) surfaces.

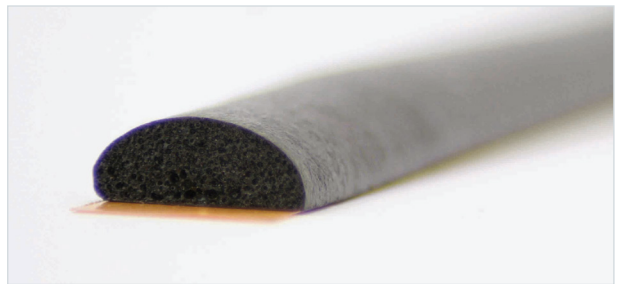
As a result, self-adhesive polyurethane foam gaskets offer a flexible and cost-effective alternative whenever the use of a fully automatically applied FIPFG gasket is not practical or possible.



Double-sided, transparent self-adhesive strip of the foam gasket offers excellent adhesion to almost all surfaces



Roll with self-adhesive polyurethane foam gasket (length: approx. 50 meters)



Standard height approx. 5 mm



Standard height approx. 8 mm

The resulting width-height ratio is approx. 2 : 1

Self-adhesive polyurethane foam gasket for different applications

Manually place in a radius

The self-adhesive foam gasket is cut from the roll in the desired seal length. By peeling off the cover paper, it is placed in the radius and attached to the surface of the component contour that is to be sealed.



Gasket in prefabricated form

The self-adhesive foam gasket is also available in a prefabricated form in your desired dimensions. CNC-controlled material application makes the gasket seamless with an almost invisible coupling point.



Miter cutting

The user can miter cut the self-adhesive foam gasket for component corners and radii. The cut edges are butted in the corner and can be additionally bonded.



Customize with a miter cut

The user can miter cut the self-adhesive foam gasket for component corners so that it is not completely cut through. The cut edges are folded towards each other and the gasket is glued onto the component. The cut surfaces can also be additionally bonded.

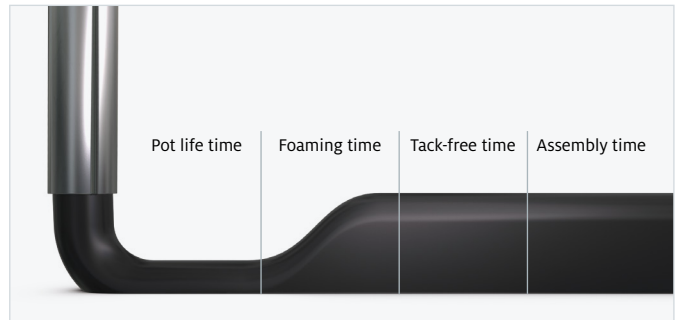
Self-adhesive polyurethane foam gasket for universal use

The self-adhesive foam gasket is made from our recommended reference material, the 2-component polyurethane foam FERMAPOR K31-A-4555-2-AD / K31-B-4, using the Formed-In-Place-Foam-Gasket (FIPFG) technology. The foam consists of a base resin (A component) and a hardener (B component), which are homogeneously mixed with each other in the mixing head of the dosing machine in a predetermined mixing ratio.

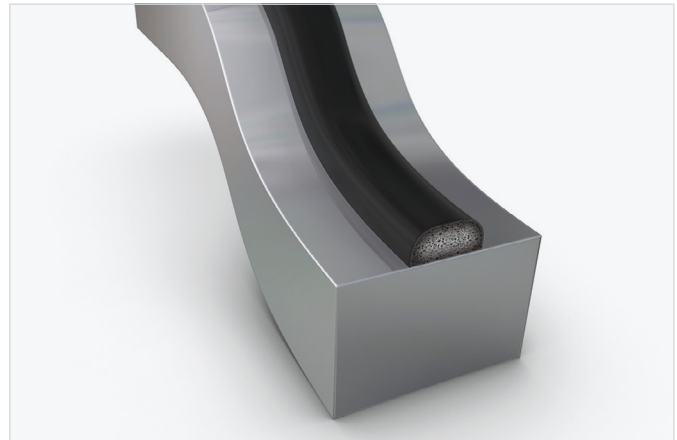
Afterwards, the dosing application is carried out fully automatically and precisely to the contour of the self-adhesive strip with our mixing and dosing machine. The double-sided transparent self-adhesive strip of the foam gasket provides a strong adhesive and mechanically resilient adhesive base for almost all materials. It adheres reliably to powder coatings as well as to LSE (Low-Surface-Energy) surfaces.

When foaming, the material applied on the self-adhesive strip forms a compressible, uniform foam gasket. After the reaction is complete, approx. 50 meters of the self-adhesive foam gasket are prepared on rolls.

Even after years of continuous use, the foam gasket has an almost 100 % resetting ability in its foam structure, so that there is always sufficient foam thickness for the compression of the foam gasket and therefore a consistently high sealing effect. This is particularly important for all components that have to be opened and closed for maintenance purposes.



The process sequence for forming a foam gasket



Reference material	FERMAPOR K31-A-4555-2-AD FERMAPOR K31-B-4
Mixing ratio	4.5 : 1
Density	0.21 g/cm ³
Hardness (Shore 00)	39
Temperature resistance	from -40 to +80 °C
UL certification	UL 50E

Transparent self-adhesive tape

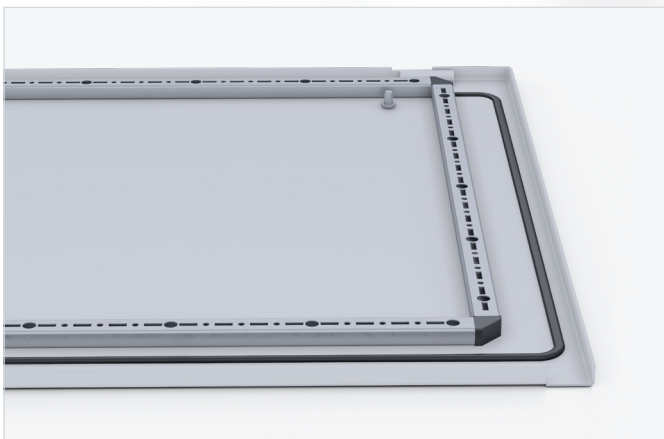
Total thickness	205 µm	Temperature resistance	
Material adhesion		long-term	200 °C
Steel	11.80 N/cm	short-term	100 °C
ABS	12.00 N/cm	Elongation at break	50 %
Aluminum	10.60 N/cm	Ultimate tensile strength	20 N/cm
PC	14.00 N/cm	Resistance to aging	Very good
PE	6.90 N/cm	Moisture resistance	Very good
PET	9.50 N/cm	Chemical resistance	Good
PP	7.90 N/cm	Resistance to softener	Good
PS	12.00 N/cm	UL Standard 969 / UL File	MH 18055
PVC	13.00 N/cm		



Self-adhesive polyurethane foam gasket for universal use



The switch cabinet, consisting of a rear panel, side panels and doors, is sealed throughout its entire structure to protect the electronics installed in the cabinet. The self-adhesive polyurethane foam gasket can be used for this purpose or if damaged parts of the gasket contour need to be repaired.



Switch cabinet door with powder coatings



Stainless steel switch cabinet door



HVAC unit with external cladding consisting of powder-coated panels sealed with PU foam.



Self-adhesive polyurethane foam gasket on powder-coated HVAC cladding panel

Perfectly coordinated solutions of material, machine and contract manufacturing

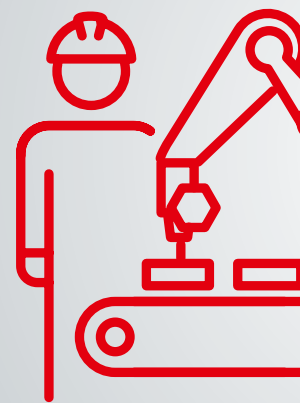
With its Sonderhoff brand, Henkel has not only acquired many years of experience in the manufacture of tailor-made two-component sealing, bonding, and potting systems, and mixing and dosing machines, but also as a process expert for application-specific material application using the FIPFG (Formed-In-Place-Foam-Gasket) technology.

With the Sonderhoff portfolio, we offer all the advantages of a system provider from a single source and the solutions to meet your technical and commercial challenges.

With the dosing technology that is tailored to our sealing foams, adhesives, and caulking and potting systems, we ensure efficient production processes in accordance with the requirements of fully automated series production.

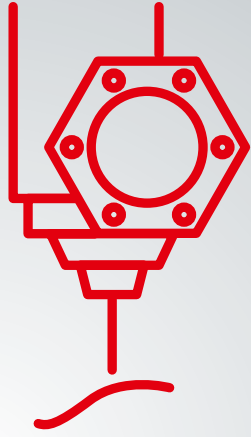
If you would like to take advantage of all the benefits of the FIPFG technology for your production in a flexible, fast, uncomplicated manner and without having to make your own acquisition investments, we can provide expert sealing, bonding, caulking and potting for your components at one of our contract manufacturing sites worldwide. There, the spectrum ranges from the sampling of prototypes and small batch series to production scale manufacturing.

The choice is yours! You can either decide in favor of our all-inclusive package, consisting of material, machine and contract manufacturing, supported by application advice, sampling and training or you can choose the individual solutions that suit you best. We combine our products and services from a single source in such a way that you receive the optimum solution for your requirements profile.



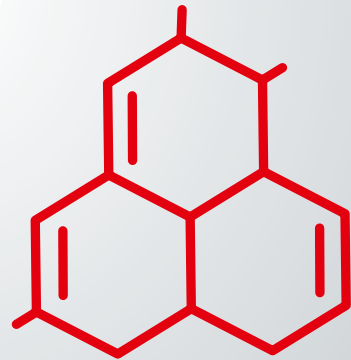
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EQUIPMENT

Automation Solutions



MATERIALS



URING

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The Henkel specialists for the Sonderhoff portfolio
are available globally

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Global presence



Every year, more than 300 million seals are manufactured in more than 50 countries using products from Henkel's Sonderhoff portfolio. At our Centers of Expertise and Regional Hubs, our specialists offer application engineering advice, e.g. selecting a suitable material system and sampling of your components, as well as project management for dosing systems and automation. You will receive training from us on how to use the FIPFG technology and we will support you with the selection of spare parts and a regular service offering. Furthermore, we will be pleased to take over parts of your production for you – from small to large series – at our subcontracting locations.

Sales staff at all other Henkel locations worldwide will also be happy to answer any questions and provide you with further information on our sealing, bonding, and potting solutions. We look forward to hearing from you.



Henkel Corporation

One Henkel Way
Rocky Hill, CT 06067
United States
Tel.: +1 860 571 5100
Fax: +1 860 571 5465

www.henkel-northamerica.com

www.henkel-adhesives.com

www.sonderhoff.us

Get in contact with us



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