

Welcome on board

Silicone solutions for the aviation industry





»Developing custom-fit and cross-industry silicone solutions.«



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Our verbal and written advice relating to technical applications is based on experience and is to the best of our knowledge correct but is given without obligation. The use of Silnova products in conditions that are beyond our control or for applications other than those specified releases us from any obligation in regard to claims made in respect of the products. We recommend that the suitability of any Silnova product for the intended application should be checked. Utilization and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you. Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

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Worldwide, our exclusive partner Decorative Products supports with the distribution of selected line fit and aftermarket items.

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Our values

Development partner + Standards competence

thinking :1:

We know how. We are a development partner with materials expertise and wide-ranging knowledge of industry standards. Our core competence is the extrusion and injection molding of customer-specific silicone solutions. Numerous high-profile companies already rely on our know-how and expertise.

We develop and produce customized silicone solutions that comply with the local requirements of your target market, including certifications and production standards, regardless of industry or application.







Innovative spirit + Challenge

driven by

We are the innovators of the silicone industry. From smartification,

sustainability and innovative manufacturing to time optimization in logistics processes: We stand ready to take on new challenges with pioneering spirit and innovative strength. We have our finger on the pulse of the industry, so that we can continue to develop optimal solutions in the future, too.

You will always find the right solution at Silnova. If it has not already been developed, we will design it especially to suit your specific application. As your experienced development partner, we always look beyond the product itself.

Partnership + Peace of mind

easy to As a comprehensive business partner, we can offer you a full-service,

"no-worries" package to give you greater peace of mind. Our industry expertise allows us to provide our customers with long-term advisory services and practical support.

As a member of the REHAU group we can create a synergy from which we gain unique added value from the earliest stages of ideation through to serial production. Working with us, you will always have the familiar face of a personal contact to whom you can turn at every stage of your project. Our unparalleled service is available to you in word and deed; no matter where, no matter when.



Our Know-how:

Materials and formulations

Development of our own materials is one of our cornerstones and quality, reliability and customer value are at it's core. Our material competence is focused on silicone.

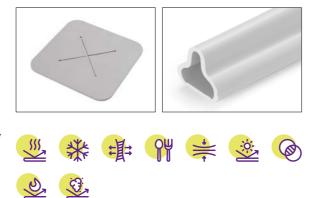
Silicone combines extreme properties in structure and durability. The performance spectrum of silicone begins where other materials reach their limits. However, the material is not a product solution in itself. Only when development work, prototype construction and certification have been completed does the product become a custom-fit solution. Our synergy concept allows

For the aviation industry we design and produce profiles, gaskets and molded parts for the interior of aircraft cabins. Our innovative silicone formulations with aviation approvals meet the stringent requirements for fire behavior and toxicity. Our corporate silicone compounding facilities allow colors individually matched to your specific requirements.

Certified formulations

Shore A50: AIMS 04-07-003 · DAN 1106 · RAU-SIK 8968 Shore A70: AIMS 04-07-006 · DAN 1107 · RAU-SIK 8964

us to supply you with tailor-made silicone solutions. Our tubings, profiles, seals and molded parts offer you unique quality thanks to our German production site coupled with our worldwide network. From idea to serial production, we partner with you through the whole process. We can accelerate implementation with our prototyping services, such as 3D printing.



For the aviation industry

Professional solutions

Our Silnova engineers guide the product from first idea through development until final usage and are always there to support our customers.

Our **production- and processing department** offers a variety of solutions for all requirements, from individual to series manufacturing to optimized manufacturing processes. The material competence of our Silnova **Inhouse material development** offers cost- and benefit optimized solutions even for special applications.

In **post processing** Silnova trusts on a variety of surface finishes as well as confectioning to realize various product characteristics.

Material competence Silicone

Production processes Extrusion, injection molding

Assembly/finishing:

braiding, cutting, punching, drilling, bonding, annealing, talcum powdering





»High performing – even under the most extreme conditions«





1 Silicone 1.1 Silicone profiles 1.1.1 Standard ABS components

Product

Standard profile (AIRBUS), gap sealing for side wall panels and hatracks, further standard profiles and developments on request

Function

Sealing hiding gaps fixing elements

Material

Silicone DAN 1106 · AIMS 04-07-003 · RAU-SIK 8968 DAN 1107 · AIMS 04-07-006 · RAU-SIK 8964

Process Extrusion

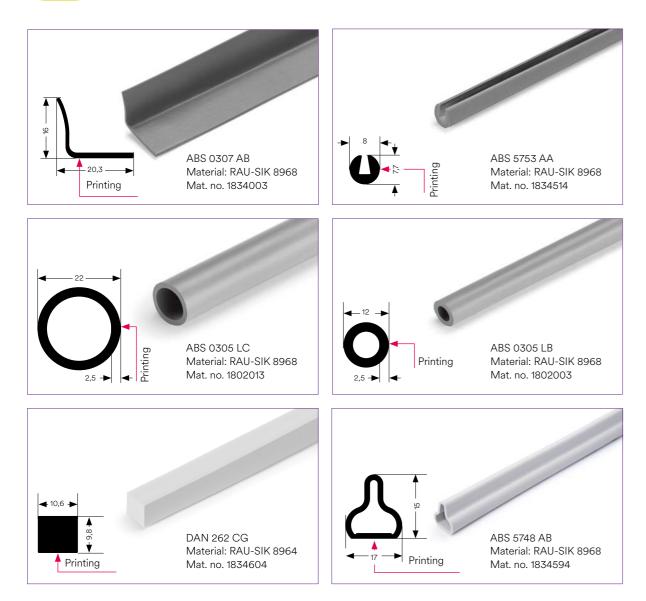




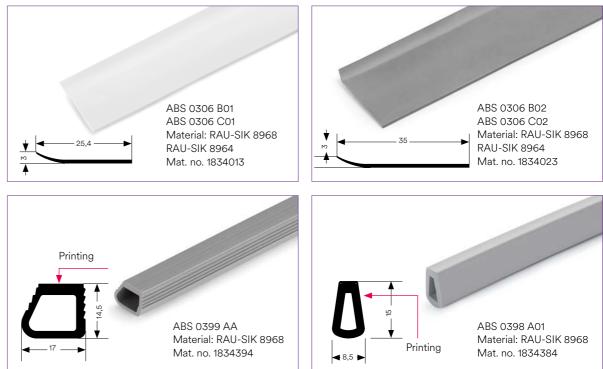
Silicone

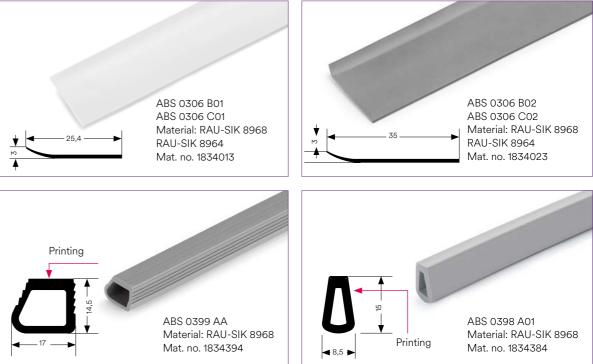


1.1.1 Standard ABS components

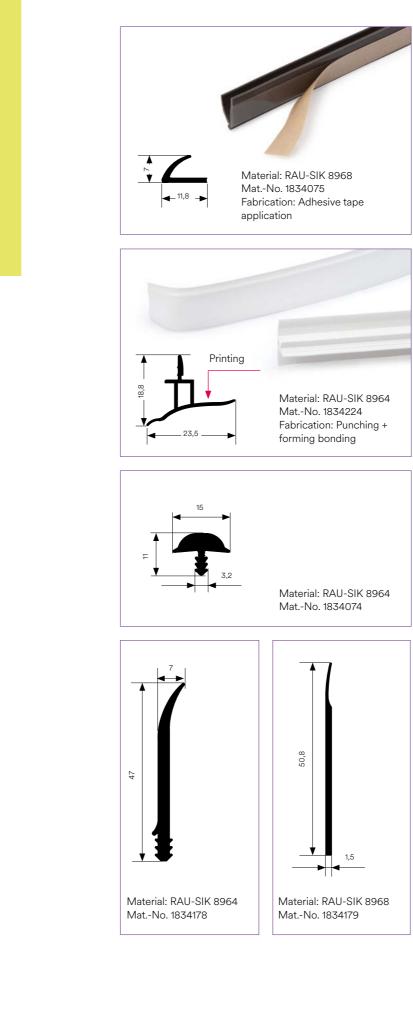


1.1.1 Standard ABS components

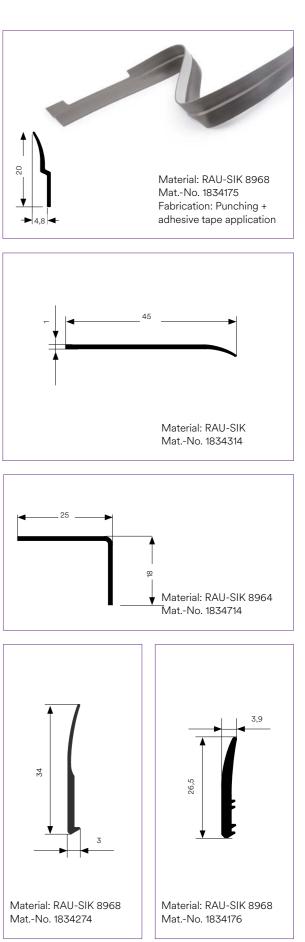


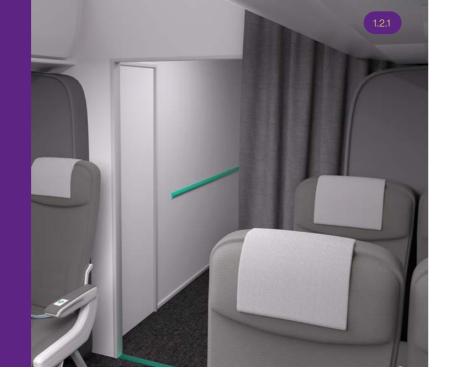






1.1.2 Interior area seals





Silicone

1.2 Silicone hoses



Material	Prod
Silicone	RAUS

0

0

Vante

0

luct SILAM FG 8 x 13,6d

Process Function Reinforced RAUSILAM hose for resin injection Extrusion in resin transfer moulding process

Material: RAU-SIK 8763 Mat.-No. 1807388

- High safety, including temperature resistance up to 180°C for short periods of time S
 - Reduction of volatile compounds through post-curing during production, thus avoiding migration / contamination in the resin
 - Transparent solution without talc, thus no contamination of the resin and full monitoring of resin flow-related impurities, blistering and premature cross-linking

On top of this flexible hose system impresses with resistance to heat and pressure and is plasticiser-free, in contrast to other flexible hose systems. It ensures good gliding properties without the use of talc and is versatile High flexibility thanks to PES filament reinforcement. It also allows to check/monitor the burst pressure.

Competence & reliability

Quality is the basis for our success. By fulfilling our customers quality needs and requirements we can supply a significant puzzle piece to a successful project.

<u></u>	Extreme heat resistance ¹
*	Extreme low temperature
:];	Permanently elastic at hig
	Excellent resilience
	Weather-, ozone- and UV-
U.	Odorless and tasteless
<u>S</u>	Water-repellent
	Electrically insulating
	Can be sterilized
&	Wide-ranging chemical re
	Free of plasticizers (conse
Ø	Transparency & color setti
QH	Suitable for food contact
	Water vapor resistance ³
G	Physiological inertness
S.	Flame retardant
S.	Flue gas resistance

- ¹ In dry heat up to +200 °C, in specific formulations up to approximately +300°C, briefly up to approximately +315°C
- ² Up to approximately -60 °C, special types up to approximately -90 °C
- ³ Up to approximately 2 bar

fl exibility²

gh and low temperatures

-resistance

esistance

equently no plasticizer migration)

tings



2 Combined know-how

Looking for even more?

Silnova is part of the REHAU group. Inside of it you will find even more tailor-made solutions for the aviation industry.



Seat rail covers The safe connection point between passenger and aircraft

Cover profiles

The clever transition between different floor coverings



Handrails

Ergonomic and functional safety



Air ducts

For a pleasant and hygienic atmosphere in the aircraft



Overhead locker brackets

The reliable support in the overhead locker



Guide rails for side wall panels

The custom-fit connection between wall panels











The bodyguard for lightweight structures

Lighting covers

Elegant design with sophisticated functional details

PSU intermediate rail

The elegant connection between operating unit and overhead locker



Edge protector

Safely covered, both in the overhead locker and on the handrails

Retainers and slide guides for window systems

Permanent fixing of interior elements



Fixation between side walls panels and the fuselage







You + Silnova

Let's synergize!

Contact us to benefit from our unique synergy of industry knowledge and material expertise. We offer custom-fit silicone solutions for every industry.

Silnova GmbH

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