

SILICONE PRODUCTS

RELIABLE IN EXTREMES

REHAU

YOUR PARTNER IN THE SILICONE SECTOR

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A PHILOSOPHY OF QUALITY

PRODUCTS FOR EVERY APPLICATION



REHAU has been processing polymer materials for decades and supplies them to the following sectors:

- **Automotive industry**
- **High pressure technology**
- **Industrial technology**
- **Food and beverages industry**
- **Horticultural and agricultural Industry**
- **Technical specialist trade**

The know-how acquired and the permanent orientation towards customer requirements distinguish REHAU as a specialist in the area of hose and silicone technology.

The REHAU production range includes a variety of products made from silicone. The material types are adjusted for specific applications in the company's in-house laboratories.

The REHAU formulations are easily identifiable from the "RAU" prefix. The abbreviation "RAU-SIK" for example stands for silicone rubber.

Using this high quality synthetic rubber which excels with its versatility, REHAU produces, amongst other things, hoses, profiles, mouldings and boards on the latest equipment applying various production processes such as e.g. extrusion, foaming and compression moulding.

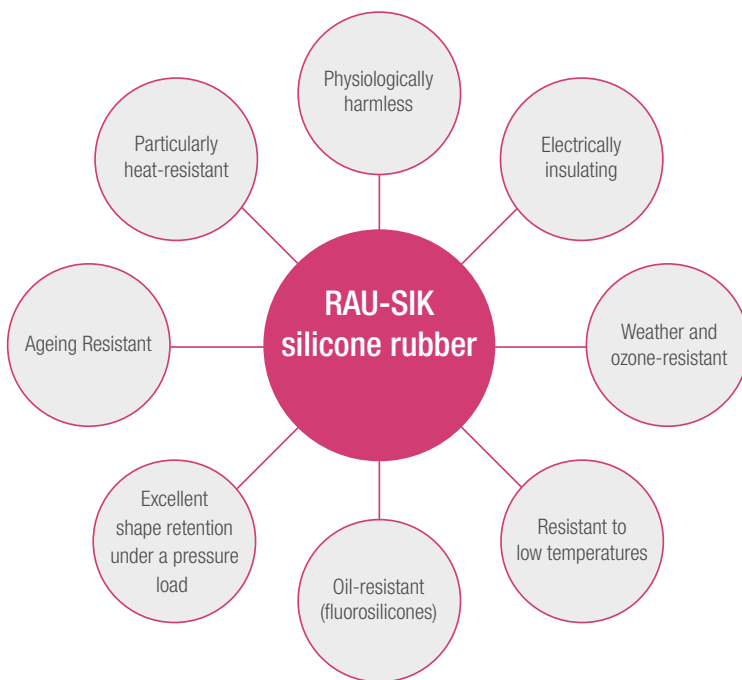
RAU-SIK

SILICONE RUBBER FROM REHAU

Silicone rubber is a polymer material from the elastomer group. It is a material with excellent physical properties, particularly in extreme situations. In addition to this, REHAU silicone products (RAU-SIK) can be extruded in special material formulations making it suitable for a wide range of applications.

Material properties of RAU-SIK:

The use and application of articles made from silicone rubber is favoured because of its many properties.



Products made from RAU-SIK are:

- Suitable for the food and beverage industry
- Resistant to a constant temperature in dry heat of up to approx. +200 °C, in special formulations up to approx. +300 °C, to approx. +315 °C for a short time
- Flexible at low temperatures up to approx. -60 °C, special types up to approx. -90 °C
- Permanently elastic at high and low temperatures
- Excellent shape retention of the solid material
- Ageing, weathering, ozone and UV-resistant
- Odourless and tasteless
- Resistant to many chemicals
- Water-repellent
- Electrically insulating
- Without plasticisers, therefore no plasticiser migration
- Resistant to water vapour up to approx. 2 bar
- Flame-retardant
- Flue-gas resistant

SILICONE PROFILES

ALWAYS RELIABLE

REHAU extrudes profiles, strips and round cords from silicone

- in RAU-SIK compact
- in RAU-SIK foamed
- in any cross-section required
- as a co-extrudate
- with self-adhesive tape
- with low-friction surface coating



In addition to this, extrudates are fabricated

- into fixed lengths
- into frames etc.



SILICONE HOSES

PREPARED FOR THE EXTREME



REHAU produces silicone hoses for almost every area of application:

RAUSIL talc-powdered –

With a low-friction surface allowing for easier processing i.e. the hose is easier to push on, trim etc.

RAULAB non-talc-powdered –

With good transparency and improved control of mediums flowing through it.

Foamed silicone hoses –

RAUSIL, RAULAB and RAUSILAM are designed for use in the technical area and are available in the FG (Food Grade) design, for use in the food and beverages sector.



RAUSILAM pressure hoses –

A reinforced silicone hose, the inner and outer layer is made from RAU-SIK whilst reinforcement is available in a range of materials; polyester, aramide etc.

In addition to this, specially designed reinforcement variants are available for special application situations (high burst pressures, high temperatures).



PRESS PADS AND BOARDS MADE FROM SILICONE

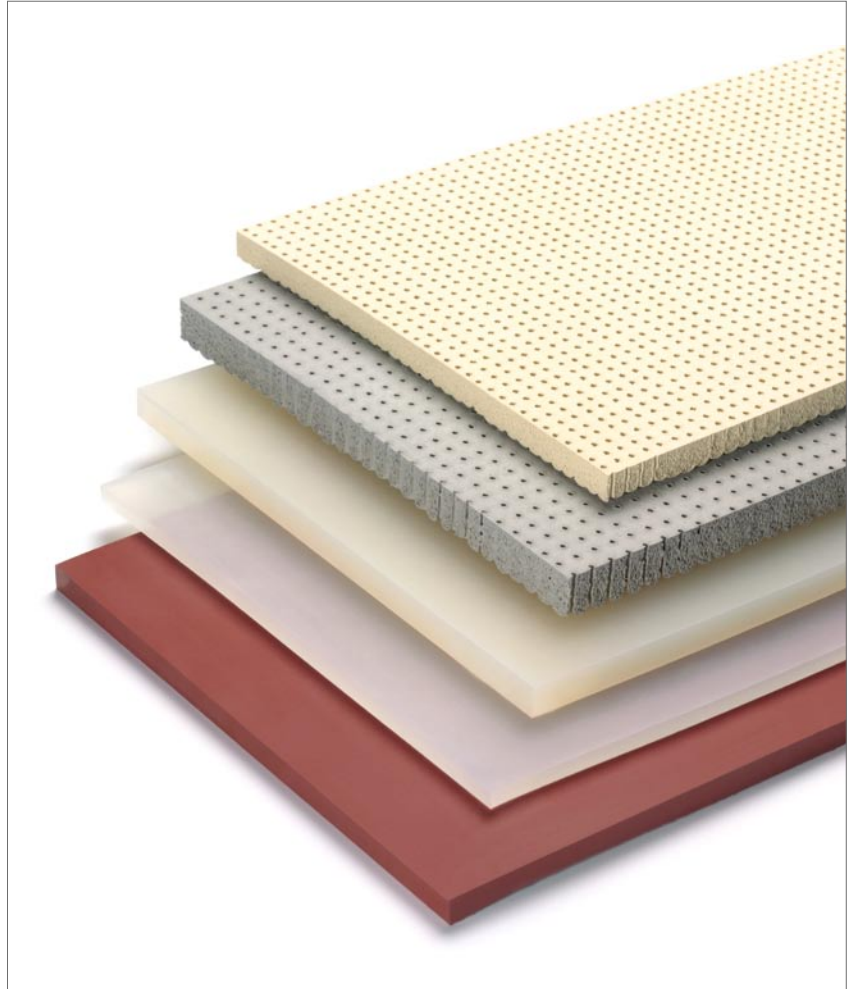
A CLEAR CASE OF QUALITY

REHAU supplies press pads for ironing tables and presses made from foamed RAU-SIK:

- in board size 1,800 x 900 mm or tailored to fit outline stencils
- in board thicknesses from 4.5 to 15 mm
- in hardnesses from Shore A 5 to Shore A 35
- perforated and studded, for even steam distribution, and so that it can escape more easily

The REHAU product range includes boards made from RAU-SIK:

- in sizes up to 2,000 x 1,000 mm
- in thicknesses up to 15 mm
- foamed or compact



SILICONE MOULDINGS

WHERE SPECIALISTS ARE IN DEMAND

Mouldings made from RAU-SIK complete the REHAU silicone product range:

- Manufactured using the compression moulding process
- In solid rubber or foamed



SILICONE ADHESIVE

A PERMANENTLY SOLID BOND

REHAU adhesive products made from RAU-SIK can be easily and reliably bonded together with metals, polymer materials and most other conventional materials. RAU-SIK adhesives have particularly high strength and durability even in extreme temperature conditions. Special flue-gas resistant adhesive systems are also available.



SO THAT WE STAY IN TOUCH

CONTACT US

Do you require any further information or do you have questions about our range of products? Then take advantage of one of the various ways of contacting us.

Sales Offices

Our staff in the REHAU Sales Offices will be happy to provide you with advice and support

Internet

You can of course also find our wide range of products on the Internet.

You will also be able to obtain an overview of our comprehensive range of services. Why not visit us at:

www.rehau.com

The customer portal

The REHAU customer portal offers a range of functions that are available to you 365 days a year, 24 hours a day.

In the password-protected area, you have the option to place orders directly for each article selected or even "upload" orders from your own merchandise management system and track the status of your orders. The pricing information saved there may also be conveniently prepared as a price list and printed out. We have put together data sheets and downloads for you in the information area.

You can access the customer portal directly from your country's website.

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