

# ELASTOSIL® RT 563

RTV-2 SILICONE RUBBER

## Product description

ELASTOSIL® RT 563 is a pourable, room-temperature-vulcanizing, condensation-curing, two-component silicone rubber.

## Special features

- excellent flow
- high hardness

## Application

- encapsulation of electric components

## Processing

ELASTOSIL® RT 563 is cured by adding Catalyst T37 for long pot lives and curing times, or Catalyst T40 for short pot lives and curing times.

The pot life is the period of time at 23 °C / 50 % rel. humidity during which the catalyzed mix to attain a viscosity of 60,000 mPa s and still be just pourable.

Catalyst T 37 and T 40 act as solvents until curing is complete. Preliminary tests must therefore be carried out to ensure that they are compatible with the components.

Comprehensive processing instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber - Processing".

## Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

## Safety notes

Being a condensation-curing silicone rubber, ELASTOSIL® RT 563 contains only constituents that over many years have proved to be neither toxic nor aggressive. Special handling precautions are therefore not required, i.e., only the general industrial hygiene regulations apply.

Catalysts T 37 and T 40 contain a tetraorganotin compound, are flammable and may cause irritation in contact with the eyes and skin. Adequate protective measures are required.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

**Product data**

| Typical general characteristics              | Inspection Method | Value                          |
|----------------------------------------------|-------------------|--------------------------------|
| <b>Product data (uncured)</b>                |                   |                                |
| Color                                        |                   | beige                          |
| Viscosity, dynamic at 23 °C                  | BROOKFIELD        | 4000 - 7000 mPa.s              |
| Density at 20 °C                             | DIN 53217         | approx. 1,27 g/cm <sup>3</sup> |
| <b>Product data (catalyzed)</b>              |                   |                                |
| <b>Mixing ratio wt 4 % T 37</b>              |                   |                                |
| Viscosity at 23 °C                           | ISO 3219          | 5000 mPa*s                     |
| Pot life , up to 60000 mPa s                 |                   | 160 min                        |
| Curing time tack-free                        |                   | 24 h                           |
| Linear shrinkage (23 °C / 50 % rel.humidity) |                   | 1 %                            |
| <b>Mixing ratio wt 4 % T 40</b>              |                   |                                |
| Viscosity at 23 °C                           | ISO 3219          | 5000 mPa*s                     |
| Pot life , up to 60000 mPa s                 |                   | 35 min                         |
| Curing time tack-free                        |                   | 8 h                            |
| Linear shrinkage (23 °C / 50 % rel.humidity) |                   | 1 %                            |
| <b>Product data (cured)</b>                  |                   |                                |
| Color                                        |                   | beige                          |
| Density at 23 °C in water                    | ISO 2781          | 1,27 g/cm <sup>3</sup>         |
| Hardness Shore A                             | ISO 868           | 55                             |
| Tensile strength                             | ISO 37            | 4,5 N/mm <sup>2</sup>          |
| Elongation at break                          | ISO 37            | 120 %                          |
| Tear strength                                | ASTM D 624 B      | 3,0 N/mm                       |

With 4 wt % Catalyst T 37; after 4 d at 23 °C / 50 % rel. humidity.

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

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