ELASTOSIL® RT 402

RTV-2 SILICONE RUBBER / MOLD MAKING

Product description

ELASTOSIL® RT 402 is a pourable, condensation-curing, two-component silicone rubber that vulcanizes at room temperature.

Special features

- very good flow and self-deaeration
- very low hardness (Shore A approx. 11)
- good tear strength
- excellent transfer characteristics for printing inks
- antistatic finish

Application

Base rubber for making printing pads.

ELASTOSIL® RT 402 has been particularly designed as a base material for making printing pads.

A special feature of ELASTOSIL® RT 402 is that it contains an antistatic additive for fast dissipation of static charge that has built up on the pad surface. This feature is particularly important for printing on highly sensitive electronic parts such as CPUs.

Processing

ELASTOSIL® RT 402 is exclusively processed with 3 wt % Catalyst T 12, based on the total amount of the mass (rubber base or base plus silicone fluid).

To ensure homogeneity of the material, the components must be stirred thoroughly before they are removed from or processed in their containers, in order to uniformly disperse any fillers that might have settled during storage. It is advisable to thoroughly mix rubber base and fluid before the catalyst is incorporated.

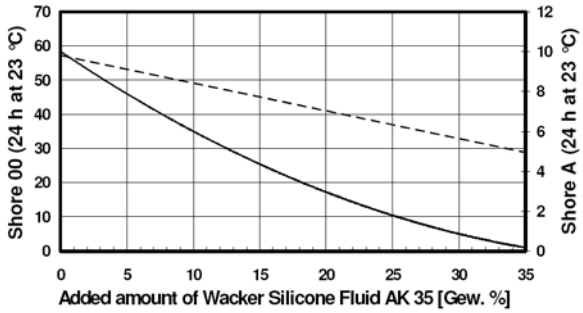
When diluting ELASTOSIL® RT 402 with silicone fluid, it is advisable to thoroughly mix rubber base and fluid before the catalyst is incorporated.

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

Dilution charts:
The following table shows the hardness of ELASTOSIL® RT 402 as a function of the added amount of Wacker Silicone Fluid AK 35 for Durometer Types Shore A and Shore 00.

Hardness Shore A / Shore 00

Added amount of Wacker Silicone Fluid AK 35 [wt %]	0	5	10	20	25	35
Shore A	10	8	6	3	2	0
Shore 00	58	53	49	40	36	30



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.

Additional information

Please visit our website www.wacker.com

Safety notes

Being a condensation-curing silicone rubber, ELASTOSIL® RT 402 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.

Catalyst T 12 contains a tetraorganotin compound, is flammable (flash point > 50 °C) and may cause irritation in contact with the eyes and skin. Appropriate 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
Product data (uncured)		
Colour		light gray
Density at 20 °C		approx. 1,29 g/cm³
Viscosity, dynamic at 23 °C	BROOKFIELD	approx. 15000 mPa.s
Product data (catalyzed with 3 wt % Catalyst T 12)		
Viscosity at 23 °C	ISO 3219	13000 mPa s
Pot-life at 23 °C (up to 60,000 mPas)		75 min
Cure time, tack-free		5 h
Product data (cured)		
Density at 23 °C in water	ISO 2781	1,28 g/cm³
Hardness Shore A	ISO 867	11
Tensile strength	ISO 37	2 N/mm^2
Elongation at break	ISO 37	350 %
Tear strength	ASTM D 624 B	> 3 N/mm

With 3 wt % Catalyst T 12, after 4 days 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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