

ELASTOSIL[®] RT 402

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Room Temperature Curing Silicone Rubber (RTV-2)

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

Main application: Making pads for pad printing, antistatic behaviour.



Properties

- Very good flowability and self-deaeration
- Very low hardness (Shore A approx. 11)
- Good tear strength
- Excellent transfer characteristics for printing inks
- Antistatic finish

Specific features

- Antistatic
- Condensation-curing
- Fast curing
- Two-component

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	light gray	-
Density	20 °C	approx. 1.29 g/cm ³	-
Viscosity, dynamic	23 °C	approx. 15000 mPa·s	Brookfield

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

Catalyzed

(catalyzed with 3 wt % Catalyst T 12, after 4 days at 23 °C / 50 % rel. humidity)

Property	Condition	Value	Method
Viscosity, dynamic	23 °C	13000 mPa·s	ISO 3219
Pot Life	60.0 mPa·s	75 - 75 min	-
Curing time (tack-free)	-	5 h	-

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Properties Cured

Property	Condition	Value	Method
Density in water	23 °C	1.28 g/cm ³	ISO 2781
Hardness Shore A	-	11	ISO 868
Tensile strength	-	2 N/mm ²	ISO 37
Elongation at break	-	350 %	ISO 37
Tear strength	-	> 3 N/mm	ASTM D 624 B

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Elastomers for Pad Printing

Application details

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 "ELASTOSIL® - PROCESSING RTV-2 SILICONE RUBBERS".

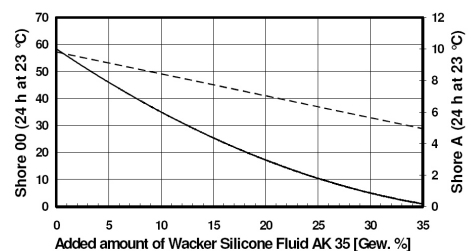
Dilution charts:

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



Packaging and storage

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 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>.

QR Code ELASTOSIL® RT 402



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

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