

# ELASTOSIL<sup>®</sup> RT K



## Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL<sup>®</sup> RT K is a pourable, condensation-curing, two-component silicone rubber that vulcanizes at room temperature.

Main applications:

- Encapsulation of electrical and electronic components
- Making flexible molds for reproducing models with no or only minor undercuts in all common reproduction materials
- Release coat for rigid molds for the casting or foaming of polyurethane resins

## Properties

- Excellent flowability and good self-deaeration
- Medium Shore A hardness (approx. 45)
- Good dielectric properties
- Outstanding resistance to casting resins, particularly polyurethanes

## Specific features

- Condensation-curing
- Low viscosity
- Two-component

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Color	-	light gray	-
Density	20 °C	approx. 1.22 g/cm <sup>3</sup>	DIN 53217
Viscosity, dynamic	23 °C	15000 mPa·s	Brookfield

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

### Catalyzed

Property	Condition	Value	Method
Viscosity, dynamic nach aufrühren	23 °C	9000 mPa·s	ISO 3219
Pot Life 2% T 47	23 °C	30 min	DIN EN ISO 2555
Pot Life 4 % T 40	23 °C	90 min	DIN EN ISO 2555
Curing time 2% T47	23 °C	3 h	-
Curing time 4% T40	23 °C	9 h	-

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## Properties Cured

catalyzed with 4 wt % Catalyst T40, after 4 days at 23°C / 50 % rel. humidity

Property	Condition	Value	Method
Color	-	light gray	-
Density in water	23 °C	1.22 g/cm <sup>3</sup>	ISO 2781
Tear strength	-	> 3 N/mm	ASTM 624 B
Hardness Shore A	-	45	ISO 868
Tensile strength	-	2 N/mm <sup>2</sup>	ISO 37
Elongation at break	-	130 %	ISO 37
Linear shrinkage 2% T47	23 °C	0.3 %	-
Linear shrinkage 4% T40	23 °C	0.7 %	-

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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

- Reproduction Molding

## Application details

- Encapsulation of electrical and electronic components
- Making flexible molds for reproducing models with no or only minor undercuts in all common reproduction materials
- Release coat for rigid molds for the casting or foaming of polyurethane resins

## Processing

ELASTOSIL® RT K is cured by adding Catalyst T40 or T47

The pot life is the period of time at 23 °C / 50% rel. humidity during which the catalyzed mix to attain a viscosity of 100000 mPa s and still be just pourable.

**Please check also our brochures and info sheets.**

## 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 K 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 T40 and T47 contains a tetraorganotin compound, is flammable (flash point 38 °C) 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>.

## QR Code ELASTOSIL® RT K



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

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