

# ELASTOSIL<sup>®</sup> RT 646 A/B

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

ELASTOSIL<sup>®</sup> RT 646 A/B is a castable, addition-curing, two-component silicone rubber which vulcanizes at room temperature.

Main applications: Moldmaking, encapsulation of electronic components, all-round potting compound.



## Properties

- High hardness and good mechanical properties
- Good chemical resistance
- Good resistance to casting resins
- Excellent reversion resistance
- Fast and non-shrink vulcanization at room temperature
- Vulcanization can be accelerated considerably by heat

## Specific features

- Addition-curing
- Fast curing
- No shrinkage
- Two-component

## Technical data

### Properties Uncured

Property	Condition	A	B	Method
Color	-	beige	transparent	-
Density	-	1.3 g/cm <sup>3</sup>	1.01 g/cm <sup>3</sup>	-
Viscosity, dynamic	23 °C	110000 mPa·s	2000 mPa·s	ISO 3219

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

### Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity, dynamic of mix	-	70000 mPa·s	ISO 3219
Platinum catalyst in component	-	A	-
Mix ratio <sup>(1)</sup>	-	10 : 1	A : B
Pot Life up to 100000 mPa s	23 °C	80 min	-
Linear shrinkage (curing at room temperature)	-	≤ 0.1 %	-

<sup>(1)</sup>(pbw)

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## Properties Cured

Cured for 60 min at 150 °C in a circulating air oven.

Property	Condition	Value	Method
Color	-	beige	-
Density	23 °C	1.28 g/cm <sup>3</sup>	ISO 2781
Hardness Shore A	-	53	DIN 53 505 / ISO 868
Tensile strength	-	5 N/mm <sup>2</sup>	ISO 37
Elongation at break	-	280 %	ISO 37
Tear strength	-	12 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

- Reproduction Molding for Foundry, Arts and Handicrafts

## Application details

- Encapsulation of electronic components
- All-round potting compound
- Mold making

## Processing

Important note:

The platinum catalyst is in **component A**.

Caution:

Only components A and B with the same lot number may be processed together!

Temperature	Curing time, thickness 1 cm
23 °C	24 h
50 °C	60 min
100 °C	10 min
150 °C	5 min

To ensure homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in their containers, in order to uniformly disperse any filler that might have settled during storage.

**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

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 646 A/B



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

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