

# ELASTOSIL<sup>®</sup> M 4601 A/B

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

Pourable, addition-curing, two-component silicone rubber that vulcanizes at room temperature.

Main application: Making shrink-free molds with excellent reproduction accuracy.

Food contact (FDA/BfR compliant).



## Properties

- Very good flow
- Low viscosity
- Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- Low Shore A hardness (approx. 28)
- High tear strength
- Excellent long-term stability of the mechanical properties of the cured rubber
- Outstanding resistance to common casting resins particularly polyurethane

## Specific features

- BfR compliant
- FDA compliant

## Technical data

### Properties Uncured

Property	Condition	A	B	Method
Viscosity, dynamic after stirring	23 °C	15000 mPa·s	800 mPa·s	ISO 3219
Density	23 °C	1.14 g/cm <sup>3</sup>	1.01 g/cm <sup>3</sup>	-
Color	-	white	reddish brown	-

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

### Catalyzed

Property	Condition	Value	Method
Curing time tack-free	-	12 h	-
Mix ratio <sup>(1)</sup>	-	9 : 1	A : B
Viscosity, dynamic	23 °C	10000 mPa·s	ISO 3219
Processing time up to 60000 mPa s	-	90 min	-

<sup>1</sup>parts by weight

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## Properties Cured

Vulcanizate after 24 h at 23 °C

Property	Condition	Value	Method
Linear shrinkage	-	< 0.1 %	-
Elongation at break	-	700 %	ISO 37
Tensile strength	-	6.5 N/mm <sup>2</sup>	ISO 37
Hardness Shore A	-	28	ISO 868
Density in water	23 °C	1.13 g/cm <sup>3</sup>	ISO 2781
Color	-	reddish brown	-
Tear strength	-	> 30 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

- Automotive molding
- Reproduction Molding for Foundry, Arts and Handicrafts

## Application details

Due to the outstanding resistance to casting resins as well as the superior mechanical properties, ELASTOSIL® M 4601 A/B is especially suitable for all molds of models with extensive undercuts that are to be reproduced in casting resins.

As a low-Shore addition-curing RTV-2 silicone rubber that cures without undergoing dimensional shrinkage, ELASTOSIL® M 4601 A/B is also extremely suitable for casting all other common reproduction materials, particularly if absolutely accurate copies of models with pronounced undercuts are required.

## Processing

Important note: The platinum catalyst is in **component B**.

Important: A and B components may only be used together if they have the same batch number.

**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

Components A and B of the addition-curing grade ELASTOSIL® M 4601 A/B contain 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.

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® M 4601 A/B



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

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