

ELASTOSIL® M 4670 US A/B



Room Temperature Curing Silicone Rubber (RTV-2)

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

Properties

- High Shore A hardness (approx. 55)
- Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- Good flow
- Excellent long-term stability of the mechanical properties of the vulcanizate
- · High tear strength
- Outstanding resistance to common casting resins

Technical data

Properties Uncured

Property	Condition	А	В	Method
Color	-	Beige	Colorless	-
Viscosity, dynamic after stirring	23 °C	150000 mPa·s	9000 mPa⋅s	ISO 3219
Specific gravity	23 °C	1.34 g/cm ³	1.03 g/cm ³	-

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

Properties Catalyzed A+B

Property	Condition	Value	Method
Color	-	Beige	-
Viscosity, dynamic	23 °C	80000 mPa·s	ISO 3219
Platinum catalyst in component	-	A	-
Mix ratio	-	10 : 1	-

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

Properties Cured

After 24 hours at 23 °C

Property	Condition	Value	Method
Hardness Shore A	-	55	ISO 867
Tensile strength	-	795	ISO 37
Elongation at break	-	300 %	ISO 37
Linear shrinkage	-	< 0.1 %	-
Specific gravity in water	23 °C	1.34 g/cm ³	-
Tear strength	-	> 68 lb/in	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.

Application details

Due to its outstanding resistance to casting resins as well as its superior mechanical properties,

ELASTOSIL® M 4670 US A/B is perfectly suitable for all molds of models with only slight undercuts that are to be reproduced in casting resins, and a high inherent rigidity of the molds is required.

As a high-Shore addition-curing RTV-2 silicone rubber that cures without undergoing dimensional shrinkage, ELASTOSIL® M 4670 US A/B is also extremely suitable for casting all other common reproduction materials, particularly if absolutely accurate copies of models with slight undercuts are required.

Processing

Important

The platinum catalyst is contained in component A.

Caution

Only components A and B that have the same lot

number may be processed together!

To ensure both optimum flow and 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 fillers that might have settled during storage.

The tables below indicate the pot lives and tack-free times at various temperatures.

The pot life figures indicate the time required for the mix to reach a viscosity of 150,000 mPa s.

The curing times apply to a layer thickness of 1 cm. Comprehensive instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber - Processing." Detailed information on other mold-making compounds in the ELASTOSIL® M range is contained in our brochure "ELASTOSIL® M. Mold-Making Compounds For Maximum Precision".

Pot lives

Processing temperature		
-15 ℃	[d]	> 2
5 ℃	[h]	6
15 ℃	[h]	3
23 ℃	[min]	90
30 ℃	[min]	40

Curing times

Curing temperatur	re	
23 ℃	[h]	24
35 ℃	[h]	10
70 ℃	[min]	30
100 ℃	[min]	15
150 ℃	[min]	10

Packaging and storage

Storage

ELASTOSIL® M 4670 US A/B has a shelf life of at least 12 months when stored between 5 °C and 30 °C in the originally sealed container. The 'Best use before end' date of each batch appears 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 4670 US 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.

Detailed safety information is contained in each

Material Safety Data Sheet, which can be obtained from our sales offices.

QR Code ELASTOSIL® M 4670 US A/B



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

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The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.