

ELASTOSIL[®] M 1470

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Room Temperature Curing Silicone Rubber (RTV-2)

Kneadable, condensation-curing, two-component silicone rubber that vulcanizes at room temperature.

Main application: Making cost effective molds.



Properties

- High Shore A hardness (approx. 45)
- High mechanical strength
- Very good heat resistance
- Low shrinkage

Specific features

- Condensation-curing
- Fast curing
- Heat resistant
- Kneadable
- Non-sag
- Two-component

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	light gray	-
Consistency	-	pasty, stiff	-
Density	20 °C 1013 hPa	approx. 1.28 g/cm ³	DIN 53217

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

Catalyzed

Catalyzed with 2 wt % Catalyst Paste T 40, after 4 days at 23 °C / 50 % rel. humidity

Property	Condition	Value	Method
Color	-	pink	-

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

Properties Cured

Property	Condition	Value	Method
Density in water	23 °C	1.28 g/cm ³	ISO 2781
Hardness Shore A	-	45	ISO 868
Tensile strength	-	4.5 N/mm ²	ISO 37
Elongation at break	-	230 %	ISO 37
Linear shrinkage	-	0.2 %	-
Tear strength	-	> 10 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

Being a kneadable grade that produces vulcanizates with high hardness and mechanical strength, ELASTOSIL® M 1470 is particularly suitable as an impression material, i. e., for molding models with only a slightly structured surface or for small models with no or only minor undercuts by either impressing a slab of catalyzed rubber onto the model surface or pressing the model into the surface of the rubber slab.

Molds made of ELASTOSIL® M 1470 can be used with all common reproduction materials.

Processing

ELASTOSIL® M 1470 is cured by adding Catalyst Paste T 40.

Comprehensive instructions are given in our leaflet "ELASTOSIL® - PROCESSING RTV-2 SILICONE RUBBERS".

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".

Catalyst Paste T 40	Pot life, approx. [min]	Curing time (tack-free), approx. [h]
2 %	70	4-5
3 %	50	3-4
5 %	20	1-2

The pot life is the period of time at 23 °C / 50 % rel. humidity during which the catalyzed mix can be applied.

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® M 1470 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 Paste T 40 contains a tetraorganotin compound, is flammable 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® M 1470



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

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