

ELASTOSIL[®] M 4440

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Room Temperature Curing Silicone Rubber (RTV-2)

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

Main application: Making cost effective molds.



Properties

- very good flowability and self-deaeration
- medium Shore A hardness (approx. 37)
- very good resistance to common casting resins

Specific features

- Condensation-curing
- Two-component

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	white	-
Viscosity, dynamic after stirring	23 °C	25000 mPa·s	DIN EN ISO 3219
Density	23 °C 1013 hPa	approx. 1.25 g/cm ³	DIN 53479

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

Catalyzed

(catalyzed with 3 wt % Catalyst T 37)

Property	Condition	Value	Method
Viscosity, dynamic	23 °C	20000 mPa·s	ISO 3219

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Properties Cured

Cured, with 3 wt % Catalyst T 37 ,after 4 days at 23 °C / 50 % rel. humidity.

Property	Condition	Value	Method
Density in water	23 °C	1.23 g/cm ³	ISO 2781
Hardness Shore A	-	37	ISO 868
Tensile strength	-	2.5 N/mm ²	ISO 37
Elongation at break	-	220 %	ISO 37
Linear shrinkage	-	0.4 %	-
Tear strength	-	4.5 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

ELASTOSIL® M 4440 is a general-purpose mold-making material suitable for casting resins, wax, gyp-sum, etc.

ELASTOSIL® M 4440 is preferred when no or only minor undercuts are involved and a certain inherent stability of the mold is required.

Processing

ELASTOSIL® M 4440 is cured by adding Catalyst T 37 for long pot lives and curing times, and Catalyst T 40 for short pot lives and curing times.

The pot life is the period of time at 23 °C / 50 % rel. humidity during which the catalyzed mix to attain a viscosity of 100,000 mPa s and still be just pourable

Catalyst	Pot life, approx. [min]	Curing time (tack-free), approx. [h]
3 % T 37	80	8-10
2 % T 40	50	6-7

Comprehensive instructions are given in our leaflet "ROOM TEMPERATURE VULCANIZING (RTV) SILICONES - Material and Processing Guidelines"

Detailed information on other mold-making compounds in the ELASTOSIL® M range is contained in our brochure "ELASTOSIL® Silicone Rubber for Mold Making".

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 4440 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.

Catalysts T 37 and T 40 contain a tetraorganotin compound, are 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 4440



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

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