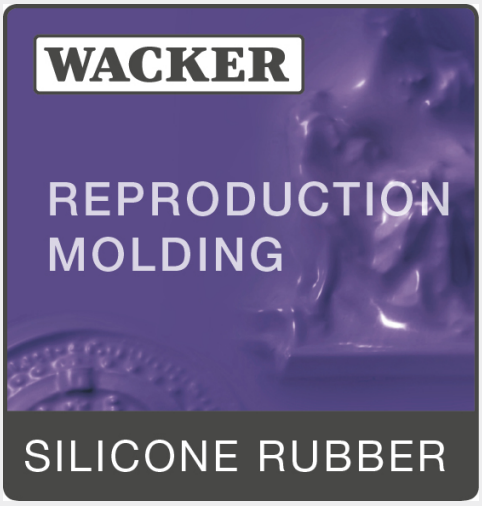
# ELASTOSIL® M 4440

ELASTOSIL®

## 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

## Technical data

### Properties Uncured

| Property | Condition | Value | Method |
|---|---|---|---|
| Viscosity, dynamic after stirring | 23 °C | 25000 mPa·s | DIN EN ISO 3219 |
| Color | - | white | - |
| 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 |

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

## Properties Cured

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

| Property | Condition | Value | Method |
|---|---|---|---|
| Linear shrinkage | - | 0.4 % | - |
| Elongation at break | - | 220 % | ISO 37 |
| Tensile strength | - | 2.5 $N/mm^2$ | ISO 37 |
| Hardness Shore A | - | 37 | ISO 868 |
| Density in water | 23 °C | 1.23 $g/cm^3$ | ISO 2781 |
| Tear strength | - | 4.5 N/mm | ASTM D 624 B |

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# Applications

- Industrial molding
- Reproduction molding for foundry, arts and handicraft

# 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.

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

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

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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