

ELASTOSIL® M 4440

RTV-2 SILICONE RUBBER / MOLD MAKING

Product description

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

Special features

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

Application

ELASTOSIL® M 4440 is a general-purpose mold-making material suitable for casting resins, wax, gypsum, 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

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

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.

Additional information

Please visit our website www.wacker.com.

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>.

Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Color		white
Density at 23 °C, at 1013 hPa	DIN 53479	approx. 1,25 g/cm ³
Viscosity, dynamic at 23 °C , after stirring	DIN EN ISO 3219	25000 mPa.s
Product data (catalyzed with 3 wt % Catalyst T 37)		
Viscosity at 23 °C	ISO 3219	20000
Product data (cured)		
Density at 23 °C in water	ISO 2781	1,23 g/cm ³
Hardness Shore A	ISO 868	37
Tensile strength	ISO 37	2,50 N/mm ²
Elongation at break	ISO 37	220 %
Tear strength	ASTM D 624 B	4,5 N/mm
Linear shrinkage		0,4 %

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

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

The data presented in this leaflet 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 leaflet 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 recommendations do 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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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

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