

Supplied by

AMBERCOMPOSITES**ELASTOSIL® M 1470**

RTV-2 Silicone Rubber / Mold Making

Characteristics

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

Special characteristics

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

Application

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.

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.

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".

Product data (uncured)

Property	Test method	Unit	Value
Color			Pale gray
Density at 23 °C		[g/cm ³]	1.29
Consistency			Pasty, stiff

Product data (catalyzed with 2 wt % Catalyst Paste T 40)

Property	Test method	Unit	Value
Color			Pink

Product data (cured)

Property	Test method	Unit	Value
Density at 23 °C in water	ISO 2781	[g/cm ³]	1.28
Hardness Shore A	ISO 868		45
Tensile strength	ISO 37	[N/mm ²]	4.5
Elongation at break	ISO 37	[%]	230
Tear strength	ASTM D 624 B	[N/mm]	> 10
Linear shrinkage		[%]	0.2

With 2 wt % Catalyst Paste T 40, 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.

Storage

ELASTOSIL® M 1470 should be stored between 5 °C and 30 °C in the tightly closed original container. The 'Best use before end' date of each batch appears on the product label.

Catalyst Paste T 40 should be stored in the sealed original containers between 5 °C and 25 °C.

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 information

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 (flash point 55 °C) and may cause irritation in contact with the eyes and skin. Adequate protective measures are required.

Detailed safety information is contained in each Material Safety Data Sheet, which can be obtained from our sales offices.

Additional information

Please visit our website www.wacker.com

Supplied by

AMBERCOMPOSITES

94 Station Road, Langley Mill
Nottingham, NG16 4BP United Kingdom
T: +44 (0)1773 530899 F: +44 (0)1773 768687
E: sales@ambercomposites.com
www.ambercomposites.com

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

WACKER

and ELASTOSIL® are registered trademarks of Wacker Chemie AG.

Version 7.00 from 27-08-07 replaces Version 6.00 from 11-04-07

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

Wacker Chemie AG
WACKER-SILICONES
Hanns-Seidel-Platz 4
D-81737 Munich, Germany

www.wacker.com
silicones@wacker.com