

ELASTOSIL® M 4514 US

RTV-2 SILICONE RUBBER / MOLD MAKING

Product description

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

Special features

- Low Shore A hardness (approx. 25)
- Very good flowability and self-deaeration
- Excellent tear strength
- High elongation and flexibility
- Outstanding chemical resistance to attack by polyurethane resins. Mold life is significantly extended.

Application

ELASTOSIL® M 4514 US is a high-performance mold-making compound, which is particularly suitable for the reproduction of models with extensive undercuts.

Processing

For molds that will process various products including epoxy, plaster, synthetic stone or wax, use Catalyst T 121 Blue US at 10% by wt for a long pot life.

For quick demold times, catalyze with T 127 Red US at 10% by wt.

The pot life is the period of time at 72 °C / 50 % rel. humidity during which the catalyzed mix takes to reach a viscosity of 60,000 cPs and still be easily pourable.

Comprehensive instructions are given in our leaflet "ELASTOSIL® MOLDMAKING FACTBOOK."

Catalyst	Pot life, [min]	Demold time [h]
T-121 Blue US	80-120	10 – 14
T-127 Red US	40 – 60	6 – 8

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis 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

For specific information regarding safe handling of this material, please refer to the Material Safety Data Sheet.

Specifications

Typical property values are not intended for use in the preparation of specifications. Please contact Wacker Silicones for assistance and recommendations before writing specifications on this product.

Contact:

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Product data

Typical general characteristics	Inspection Method	Value
Product data (uncured)		
Color		white
Density		approx. 1.26 g/cm ³
Viscosity of the base at 73°F	ISO 3219	35000 cPs
Product data (catalyzed with 10 wt % Catalyst T121 US)		
Viscosity at 73°F	ISO 3219	24000 cPs
Product data (cured)		
Specific gravity	ISO 2781	1.25
Hardness Shore A	ISO 867	25
Tensile Strength	ISO 37	650 psi
Elongation at break	ISO 37	450 %
Tear strength	ASTM D 624 B	> 140 ppi
Linear shrinkage		< 0.4 %

With 10 wt % Catalyst T 121 US, after 4 days at 73 °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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