

ELASTOSIL[®] M 4541 US



Room Temperature Curing Silicone Rubber (RTV-2)

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

Properties

- Medium Shore A hardness (approx. 30)
- 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.

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	White	-
Viscosity, dynamic of the base	22.778 °C	40000 cP	ISO 3219
Specific gravity	-	1.18 g/cm ³	-

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

Properties Catalyzed A+B

(Catalyzed with 10 wt % Catalyst T 121 US)

Property	Condition	Value	Method
Viscosity, dynamic	22.778 °C	35000 cP	ISO 3219

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

Properties Cured

With 10 wt % Catalyst T 121 US, after 4 days at 73 °F / 50 % rel. humidity

Property	Condition	Value	Method
Tear strength	-	170 ppi	ASTM D 624 B
Hardness Shore A	-	30	ISO 867
Tensile strength	-	725 psi	ISO 37
Elongation at break	-	400 %	ISO 37
Specific gravity	-	1.16 g/cm ³	ISO 2781

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

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.

Application details

ELASTOSIL® M 4541 US is a high-performance moldmaking compound, which is particularly suitable for the reproduction of models with extensive undercuts.

Processing

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

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

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

Catalyst	Pot life, [min]	Demold time [h]
T-121 Blue US	70 – 100	10 – 14
T-127 Red US	40 – 60	6 – 8

Packaging and storage

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 Safety Data Sheet.

QR Code ELASTOSIL® M 4541 US



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.