

ELASTOSIL® RT 602

RTV-2 Silicone Encapsulant

Characteristics

ELASTOSIL® RT 602 is a pourable, addition-curing RTV-2 silicone rubber.

Special characteristics

- Two-part, 9 : 1 mixing ratio
- Low viscosity
- Rapid heat cure
- Medium hardness
- Excellent heat stability

Product data (uncured)

Property	Test method	Unit	Value	
Component			A	B
Color			Light gray	Transparent
Viscosity at 23 °C	ISO 3219	[mPa s]	5,000	200
Density	DIN 52 479 A	[g/cm ³]	1.17	0.96

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

Product data (catalyzed A+B)

Property	Test method	Unit	Value
Platinum-catalyst in component			A
Mixing ratio (by weight)		A : B	9 : 1
Viscosity of mix	ISO 3219	[mPa s]	3,500
Pot life at 23 °C (up to 100,000 mPa s)		[min]	80

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

Product data (cured)

Property	Test method	Unit	Value
Color			Light gray
Density at 23°C	ISO 2781	[g/cm ³]	1.17
Hardness Shore A	ISO 868		30
Tensile strength	ISO 37	[N/mm ²]	1.5
Elongation at break	ISO 37	[%]	130
Dielectric strength	IEC 243	[kV/mm]	23
Volume resistivity	IEC 93	[Ω cm]	10 ¹⁶
Dielectric constant	VDE 0303 T4 / 50 Hz	[ε _r]	3.1
Dissipation factor	VDE 0303 T4 / 50 Hz	[tan δ]	450 × 10 ⁻⁴
Tracking resistance	IEC 112	[CTI]	> 600

Cured for 30 min at 150 °C in a circulating air oven.

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

Application

- General purpose Encapsulant

Processing

Caution

Only components A and B with the **same lot number** may be processed together!

To ensure homogeneity of the material, the components must be stirred thoroughly before they are removed or processed in their containers, in order to uniformly disperse any filler that might have settled during storage.

Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of ELASTOSIL® RT 602. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds. If a substrate's ability to inhibit cure is unknown, a small scale test should be run to determine compatibility.

Mixing

Component A of ELASTOSIL® RT 602 contains the platinum catalyst, component B the crosslinker. Even traces of the platinum catalyst may cause gelling of the component containing the crosslinker. Therefore tools (spatula, stirrers, etc.) used for handling the platinum-containing component or the catalyzed compound must not come into contact with this component. The two components should be thoroughly mixed at a 9 : 1 ratio by weight. To eliminate any air introduced during dispensing or trapped under components or devices a vacuum encapsulation is recommended.

Curing

Curing time of addition-curing silicone rubber is highly dependent on temperature, size and heat sink properties of the component being potted.

Temperature	Curing time, thickness 1 cm
23 °C	24 h
70 °C	20 min
100 °C	10 min
150 °C	5 min

We recommend running preliminary tests to optimize conditions for the particular application. Comprehensive processing instructions are given in our leaflet "Wacker RTV-2 Silicone Rubber - Processing".

Storage

ELASTOSIL® RT 602 has a shelf life of at least 12 months when stored in tightly closed original containers at 25 °C. The 'Best use before end' date of each batch appears 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 information

According to the latest findings addition-curing silicone rubber ELASTOSIL® RT 602 contains neither toxic nor aggressive substances which would require special handling precautions. General industrial hygiene regulations should be observed.

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

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. The Business Unit Elastomers of the Division Silicones is ISO/TS 16949 certified.

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