

ELASTOSIL® RT 628

RTV-2 Silicone Rubber

Characteristics

ELASTOSIL® RT 628 is a pourable, addition-curing, room temperature curing, two-component silicone rubber.

Special characteristics

- Rubber with medium hardness
- Fast curing at high temperatures
- Easy to process due to its low viscosity
- Solvent-free
- Excellent reversion resistance

- Can be vulcanized in closed systems
- Good mechanical strength

Application

- Encapsulation of electrical components
- Coatings
- Mold making

Product data (uncured)

Property	Test method	Unit	Value	
Component			A	B
Color			Black	White
Viscosity at 23 °C	ISO 3219	[mPa s]	100,000	700
Density at 23 °C		[g/cm ³]	1.24	1.03

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	
Mixing ratio		A : B	9 : 1	
Viscosity of mix	ISO 3219	[mPa s]	50,000	
Pot life at 23 °C (up to 100,000 mPa s)		[min]	60	
Platinum-catalyst in component			B	
Linear shrinkage (curing at room temperature)	7 d / 23 °C	[%]	< 0.1	

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Product data (cured)

Property	Test method	Unit	Value	
Color			Gray	
Density at 23 °C	DIN EN ISO 1183-1 / ISO 2781	[g/cm ³]	1.23	
Hardness Shore A	DIN 53 505 / ISO 868		50	
Tensile strength	DIN 53 504 S 1 / ISO 37	[N/mm ²]	3.5	
Elongation at break	DIN 53 504 S 1 / ISO 37	[%]	230	
Tear strength	ASTM D 624 B	[N/mm]	11	

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

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Processing

Important!

The platinum catalyst is contained in component B.

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 fillers that might have settled during storage.

Temperature	Curing time, thickness 1 cm
23 °C	24 h
Demouldable after approx. (23 °C)	8 h

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 628 should be stored between 5 °C and 25 °C in the tightly closed original container. 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

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

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.

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

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