

ELASTOSIL® RT 629 A/B

RTV-2 Silicone Rubber / Pad Printing

Characteristics

ELASTOSIL® RT 629 is a pourable, addition-curing, two-component silicone rubber that vulcanizes at room temperature.

Special characteristics

- Antistatic finish
- Excellent flow
- High reactivity for fast demolding even if large amounts of silicone fluid are added
- Fast and non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- Medium hardness (Shore A approx. 31)
- Excellent mechanical properties

Application

Base rubber for making printing pads

A special feature of ELASTOSIL® RT 629 is that it contains an antistatic additive for fast dissipation of static charge that has built up on the pad surface.

The vulcanizate's high mechanical strength and long term stability of hardness make ELASTOSIL® RT 629 an ideal base material for producing antistatic printing pads with excellent mechanical properties and long service life.

Product data (uncured)

Property	Test method	Unit	Value	
Component			A	B
Appearance			turquoise	white
Density at 23°C		[g/cm ³]	1.14	0.99
Viscosity at 23°C, after stirring	ISO 3219	[mPa s]	14,000	900

Product data (catalyzed A+B)

Property	Test method	Unit	Value
Mixing ratio	A : B	[pbw]	10 : 1
Viscosity at 23°C	ISO 3219	[mPa s]	8,000
Pot life (up to 60,000 mPa s)		[min]	40
Curing time (tack free)		[h]	3

Product data (cured)

Property	Test method	Unit	Value
Color			turquoise
Density at 23°C, in water	ISO 2781	[g/cm ³]	1.13
Hardness, Shore A	ISO 868		31
Tensile strength	ISO 37	[N/mm ²]	6
Elongation at break	ISO 37	[%]	500
Tear strength	ASTM D 624 B	[N/mm]	25
Linear shrinkage		[%]	< 0,1
After 24 hours at 23°C.			

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

Processing

Important

The platinum catalyst is contained in component B.

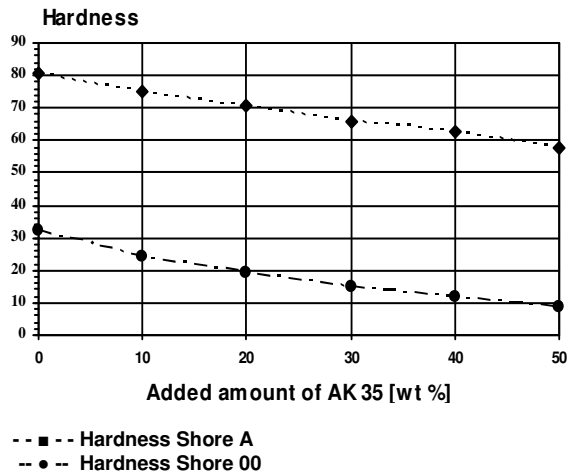
Caution

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

Dilution charts

The following tables show the hardness of ELASTOSIL® RT 629 as a function of the added amount of Wacker Silicone Fluid AK 35 for Durometer Types Shore A and Shore 00.

	Added amount of Wacker Silicone Fluid AK 35 [wt %]					
	0	10	20	30	40	50
Shore A	31	24	19	16	12	9
Shore 00	80	75	71	66	63	58



Storage

ELASTOSIL® RT 629 has a shelf life of at least 12 months when stored between 5 °C and 30 °C in the originally sealed 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

Components A and B of the addition-curing grade ELASTOSIL® RT 629 contain 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.

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

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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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