

ELASTOSIL® RT 624

RTV-2 Silicone Rubber

Characteristics

Pourable, addition-curing, two-component silicone rubber that vulcanizes at elevated temperature.

Special characteristics

- High tear resistance
- Long potlife at ambient temperature
- High reactivity already at 100 °C
- Outstanding compression set
- Suitable for LIM process

Product data (uncured)

Property	Test method	Unit	Value	
Component			A	B
Color			Translucent	Translucent
Viscosity at 23 °C, D = 0.5/s		[mPa s]	60,000	30,000
Viscosity at 23 °C, D = 25/s		[mPa s]	40,000	20,000
Density at 23 °C		[g/cm³]	1.07	1.07

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

Product data (catalysed A + B)

Property	Test method	Unit	Value
Mixing ratio		A : B	1 : 1
Color			Translucent
Viscosity at 23 °C, D = 0.5/s		[mPa s]	50,000
Viscosity at 23 °C; D = 25/s		[mPa s]	30,000
Potlife at 23 °C		[h]	24
Kick-off temperature		[°C]	95
T ₉₀ (110 °C)	DIN 53 529 A 3	[s]	50
T ₂₀ (110 °C)	DIN 53 529 A 3	[s]	25

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Product data (cured)¹⁾

Property	Test method	Unit	Value
Density at 23 °C, in water	ISO 2781	[g/cm³]	1.05
Hardness Shore A	ISO 868		40
Tensile strength	ISO 37	[N/mm²]	5.0
Elongation at break	ISO 37	[%]	300
Tear strength	ASTM D 624 B	[N/mm]	> 12
Compression set (22 h / 120 °C)	DIN ISO 815-B	[%]	< 10
Coefficient of linear expansion (0 - 150 °C)		[m/mK]	1.7 × 10 ⁻⁴

¹⁾ After 5 min at 165 °C.

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- Cure at low mold temperature possible
- Particularly high hydrogen resistance

Application

- Silicone rubber for temperature sensitive sealing applications
- Particularly suitable for fuel cell seals

Processing

Important

The platinum catalyst is contained in Component A.

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

Mixing of the components

To ensure both optimum flow and, in case a Pigment Paste FL was added, also full homogeneity of the material by uniformly dispersing any pigment that might have settled during storage, the components should be stirred thoroughly before they are removed from or processed in their containers.

It is absolutely imperative that any equipment, such as mixing vessels, spatulas and stirrers, that is used to process Component A (which contains the platinum catalyst) or the mixture of both components does not come in contact with Component B (which contains the crosslinker). Therefore, all equipment should be clearly labeled.

Storage

ELASTOSIL® RT 624 should be stored between 5 °C and 30 °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.

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Version 4.00 from 03-06-05 replaces
Version 3.00 from 03-03-04

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