

ELASTOSIL[®] RT 563



Room Temperature Curing Silicone Rubber (RTV-2)

ELASTOSIL[®] RT 563 is a pourable, room-temperature-vulcanizing, condensation-curing, two-component silicone rubber.

Main application: encapsulation of electronic components

Properties

- Excellent flow
- High hardness

Specific features

- Condensation-curing
- Flowable
- Two-component

Technical data

General Characteristics

Property	Condition	Value	Method
Density	20 °C	approx. 1.27 g/cm ³	DIN 53217
Viscosity, dynamic	23 °C	4000 - 7000 mPa·s	Brookfield

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

Properties Uncured

Property	Condition	Value	Method
Color	-	beige	-

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Catalyzed

Mixing ratio wt 4% Catalyst T 37

Property	Condition	Value	Method
Viscosity, dynamic	23 °C	5000 mPa·s	ISO 3219
Pot life ⁽¹⁾	-	160 min	-
Curing time tack-free	-	24 h	-
Linear shrinkage	23 °C	1 %	-

¹, up to 60000 mPa·s

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Catalyzed

Mixing ratio wt 4 % Catalyst T 40

Property	Condition	Value	Method
Viscosity, dynamic	23 °C	5000 mPa·s	ISO 3219
Pot life ⁽¹⁾	-	35 min	-
Curing time tack-free	-	8 h	-
Linear shrinkage	23 °C	1 %	-

¹, up to 60000 mPa s

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Properties Cured

Cure conditions: 190°C 10min

Property	Condition	Value	Method
Color	-	beige	-
Density in water	23 °C	1.27 g/cm ³	ISO 2781
Tear strength	-	3 N/mm	ASTM D 624 B
Hardness Shore A	-	55	ISO 868
Tensile strength	-	4.5 N/mm ²	ISO 37
Elongation at break	-	120 %	ISO 37

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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.

Applications

- Encapsulation

Application details

- Encapsulation of electronic components

Processing

ELASTOSIL® RT 563 is cured by adding Catalyst T37 for long pot lives and curing times, or Catalyst T40 for short pot lives and curing times.

The pot life is the period of time at 23 °C / 50 % rel. humidity during which the catalyzed mix to attain a viscosity of 100,000 mPa s and still be just pourable

Catalyst T 37 and T 40 act as solvents until curing is complete. Preliminary tests must therefore be carried out to ensure that they are compatible with the components.

Please check also our brochures and info sheets.

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown 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 notes

Being a condensation-curing silicone rubber, ELASTOSIL® RT 563 contains 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.

Catalysts T 37 and T 40 contain a tetraorganotin compound, are flammable and may cause irritation in contact with the eyes and skin. Adequate protective measures are required.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>. 1 space line

QR Code ELASTOSIL® RT 563



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

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