

# SEMICOSIL<sup>®</sup> 9671 TC4



## Thermally Curing Silicone Rubber (RTV-2)

SEMICOSIL<sup>®</sup> 9671 TC4 is a thermal conductive gap filler silicone material used as heat sink application for the electronic industrie.

### Properties

SEMICOSIL<sup>®</sup> 9671 TC4 is a shear-thinning, easy dispensing, non-slump, addition-curing, two part silicone rubber that cures at room temperature to a crosslinked, soft rubber with excellent thermal conductivity.

- Thermal conductive gap filler rubber
- Shear thinning for easy pumping & dispensing
- No oil bleeding
- Low modulus material for shear stress reduction
- Low density
- Low volatile D4-D8 < 100ppm
- UL 94 V-0
- Excellent low and high temperature properties from – 40 °C to +130 °C

## Technical data

### Properties Uncured

Property	Condition	A	B	Method
Color	-	Blue	White	-
Density	23 °C	approx. 2.07 g/cm <sup>3</sup>	approx. 2.07 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Viscosity, dynamic	23 °C   1 1/s	approx. 200000 mPa·s	approx. 200000 mPa·s	DIN EN ISO 3219
Viscosity, dynamic	23 °C   10 1/s	approx. 75000 mPa·s	approx. 75000 mPa·s	DIN EN ISO 3219
Platinum catalyst in component	-	A	-	-

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

### Properties Catalyzed A+B

Property	Condition	Value	Method
Viscosity, dynamic after mixing	25 °C   10 1/s	200.000 mPa·s	DIN EN ISO 3219
Mix ratio	-	1 : 1	A : B
Pot life (doubling of mix viscosity)	25 °C	90 min	DIN EN ISO 3219

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## Properties Cured

Property	Condition	Value	Method
Density	23 °C	2.07 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Hardness Shore 00	-	80	ASTM 2240 / Type 00
Volume resistivity	23 - 23 °C   1000 V	> 10 <sup>12</sup> Ohmcm	IEC 62631-3-1
Dielectric strength	50 Hz   23 °C	approx. > 5 kV/mm	IEC 60243-1
Flammability <sup>(1)</sup>	-	UL 94 V-0	-
Thermal conductivity	23 °C	2.3 W/(m·K)	ASTM D 5470-12

<sup>1</sup>acc. internal testing

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SEMICOSIL® electronics applications

## Applications

- Automotive Electronics
- Battery
- Electronic Control (ECU) & Power Control Units (PCU) & Sensors
- Thermal Interface Materials

## Application details

The platinum catalyst is contained in component A.

## Packaging and storage

### Packaging

SEMICOSIL® 9671 TC4 is available in Hobbocks and Drums.

### Storage

SEMICOSIL® 9671 TC4 has a shelf life of at least 3 months when stored between 5°C and 30°C in the originally sealed container. 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 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

According to the actual regulations, addition curing SEMICOSIL® 9671 TC4 silicone rubber contains neither toxic nor corrosive substances which might require special handling precautions. General hygiene regulations should be observed. 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>

## QR Code SEMICOSIL® 9671 TC4



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

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