

# SEMICOSIL® 988/1K

Silicone Adhesive

## Characteristics

SEMICOSIL® 988/1K is a non-slump, thermally curable, addition-curing, one-part silicone rubber.

## Special characteristics

- Ready-to-use, one-part system
- Thixotropic
- Transparent
- Medium hardness
- High flexibility (low-stress adhesive)
- Rapid heat cure
- Excellent primerless adhesive to many substrates

## Application

- General-purpose adhesive for the electronics industry
- FIPG and CIPG applications

## Processing

### Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of SEMICOSIL® 988/1K. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds.

If a substrate's ability to inhibit cure is unknown, a small scale test should be run to determine compatibility.

## Product data (uncured)

Property	Test method	Unit	Value
Color			Transparent
Density at 23 °C		[g/cm <sup>3</sup> ]	1.1
Viscosity at 23 °C	ISO 3219, D = 0.5 1/s D = 25 1/s	[mPa s]	450,000 30,000

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

## Product data (cured)

Property	Test method	Unit	Value
Color			Transparent
Density at 23 °C	ISO 2781	[g/cm <sup>3</sup> ]	1.1
Hardness Shore A	ISO 868		35
Elongation at break	ISO 37	[%]	350
Tensile strength	ISO 37	[N/mm <sup>2</sup> ]	4.5
Modulus at 100 % elongation	ISO 37	[N/mm <sup>2</sup> ]	0.5
Tear resistance	ASTM D 624 B	[N/mm]	24
Dielectric strength	IEC 243	[kV/mm]	23
Volume resistivity	DIN IEC 93	[Ω cm]	10 <sup>15</sup>
Tracking resistance	DIN IEC 112	[CTI]	> 600

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

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### Dispensing

Because of the high thixotropy (shear thinning effect) SEMICOSIL® 988/1K can be dispensed easily with all dispensing equipments.

### Curing

SEMICOSIL® 988/1K works best when cured at 125 °C or more depending on the size and heat sink properties of the components.

Temperature	Curing time, thickness 1 cm
100 °C	6 h
130 °C	1 h
150 °C	10 min

SEMICOSIL® 988/1K shows good primerless adhesion to many substrates. We recommend running preliminary tests to optimize conditions for the particular application.

### Storage

SEMICOSIL® 988/1K 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 instructions

According to the latest findings, addition-curing RTV-2 silicone rubber SEMICOSIL® 988/1K contains neither toxic nor aggressive substances that require special handling precautions. General industrial hygiene regulations should be observed.

Detailed safety information is contained in each Material Safety Data Sheets which can be obtained from our sales offices.

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

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