SEMICOSIL® 961 TC A/B

SEMICOSIL®

Room Temperature Curing Silicone Rubber (RTV-2)

SEMICOSIL® 961 TC A/B is a shear-thinning, easy-dispensing, non-slump, addition-curing, two part silicone rubber that cures at room temperature to a soft and tacky rubber with excellent thermal conductivity.

Properties

- Gap filler, thermal conductivity 2.3 W/mK
- Two-part, RT curing
- Constant properties from –50 °C to 130 °C
- Low stress, soft and tacky
- D4-D8 < 350 ppm

Technical data

Properties Uncured

Property	Condition	A	B	Method
Color Component A	-	white	yellow	-
Density Component A	23 °C	2.9 g/cm^3	2.9 g/cm^3	DIN EN ISO 1183-1 A
Viscosity, dynamic Cone-plate-viscosimeter Component A	23 °C	130000 mPa·s	130000 mPa·s	ISO 3219, D = 10 1/s

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 catalyzed	23 °C	130000 mPa·s	ISO 3219, D = 10 1/s
Platinum catalyst in component	-	A	-
Mix ratio[(1)]	-	1 : 1	A : B
Pot Life (up to 300000 mPas)	23 °C	60 min	DIN EN ISO 3219

[1], parts by weight

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Properties Cured

cured for 5 min at 165 °C

Property	Condition	Value	Method
Color	-	yellow	-
Density in water	23 °C	2.9 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore 00	-	55	ASTM D 2240
Volume resistivity	-	> 10^{13} Ohmcm	IEC 62631-3-1
Dielectric strength	-	8 kV/mm	IEC 60243-1
Flame Rating vertical test	-	V-O	Internal test acc. UL94
Heat capacity	30 °C	1 J/gK	-
Siloxane D4-D8	-	< 350 ppm	NSCG012
Thermal conductivity	-	2.3 W/m.K	ASTM D 5470-12

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Applications

- Automotive Electronics
- Battery
- Electronics
- Power Control Unit (PCU)
- Power Electronics
- Thermal Interface Materials

Application details

Interface material for heat sink applications for the electronics industry

Processing

Processing

The platinum catalyst is contained in component A.
Only components A and B with the same lot number may be processed together!

Temperature	Curing time, thickness 6 mm, 90% cure
25 °C	300 min
100 °C	5 min

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

According to the latest findings, addition curing SEMICOSIL® 961 TC A/B 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® 961 TC A/B

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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com