

SEMICOSIL[®] 961 TC A/B



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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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

- Automotive Electronics
- Battery
- Electrics & Electronics
- Power Control Unit (PCU)
- Power Electronics
- Thermal Interface Management

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, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

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