

LUMISIL[®] 010 A/B



Room Temperature Curing Silicone Rubber (RTV-2)

LUMISIL[®] 010 A/B is a 2-part silicone gel(1:1) that is specially designed for injection dispensing systems with low viscosity by room temperature cure or heat conditions for displays.

Properties

Specific features

- Addition Curing
- Fast curing under heat
- Flowable
- Highly transparent
- No chemical shrinkage
- Optically clear
- Two-component

Technical data

Properties Uncured

Property	Condition	A	B	Method
Color	-	Clear	Clear	-
Density	-	0.97 g/cm ³	0.97 g/cm ³	-
Viscosity	-	110 ± 50 mPa.s	120 ± 50 mPa.s	ISO 3219

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

Properties Catalyzed A+B

Property	Condition	Value	Method
Gel time	25 °C	3 - 5 h	-
Mix ratio	-	1 : 1	A : B
Platinum catalyst in component	-	B	-
Pot Life	23 °C	> 2 h	-
Viscosity of mix	-	120 ± 50 mPa.s	ISO 3219

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Properties Cured

Property	Condition	Value	Method
Density	-	0.97 g/cm ³	-
Hardness (Penetration, 9.38g hollow cone)	-	45 - 65 1/10mm	SEQ170
Pull test (Glass/Glass, Test speed: 300mm/min)	-	> 0.2 MPa	-
Refractive index	-	1.405	-
Transmittance	-	> 99.0 %	-

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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.

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

Applications

- Automotive Electronics
- Automotive, Aerospace & Railway
- Displays & Optical Bonding
- E-Mobility
- Electrics & Electronics
- Electronics

Application details

- Encapsulation of optical & electronic components
- Optical bonding for touch screen panel
- Production of damping elements

Processing

Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of the product. 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.

Degassing before Mixing

In mass production, Degassing is essential process before mixing of materials.

Mixing

Part A : Part B = 1 : 1

Curing

Curing speed can be adjusted by temperature and time. Heat can accelerate curing process. We recommend running preliminary tests to optimize conditions for particular application.

Packaging and storage

Storage

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 notes

According to the latest findings, LUMISIL® 010 A/B being an addition-curing silicone rubber contains neither toxic nor aggressive substances which might require special handling precautions. General industrial hygiene regulations should be observed. Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

QR Code LUMISIL® 010 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

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