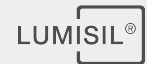


INTERNAL ONLY

LUMISIL 245 GEL 1K UV



Room Temperature Curing Silicone Rubber (RTV-2)

LUMISIL® 245 GEL 1K UV is 1-part transparent silicone elastomer that cured by UV condition for displays.

Properties

High viscosity for screen printing process
No oxygen inhibition
Excellent transparency
Low shrinkage

Specific features

- Addition Curing
- Flowable
- Highly transparent
- One-component
- UV curing

Technical data

Properties Uncured

Property	Condition	Value	Method
Appearance	-	Clear liquid	-
Density	23 °C	0.98 g/cm ³	-
Viscosity	-	47000 mPa·s	ISO 3219
Refractive index	25 °C 589 nm	1.405	-

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

Properties Cured

Property	Condition	Value	Method
Appearance	-	Clear	-
Density	23 °C	0.98 g/cm ³	-
Dielectric constant	100 Hz	2.7	-
Haze	-	< 0.05	-
Transmittance ⁽¹⁾	-	> 99.0 %	-
Yellow index	-	< 0.1	-

¹Ref. Glass

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

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

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

Processing

Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of LUMISIL® 245 GEL 1K UV.

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

Curing

Curing speed can be adjusted by UV power and time. Also heat can accelerate curing process.

We recommend running preliminary tests to optimize conditions for particular application.

- Recommended Lamp type: UV-A (ex. Mercury, Metal Halide etc.), 365nm LED

If the applied lamp is 365nm LED lamp, the higher UV irradiance would be better. (ex. 2,000 mW/cm²)

Tack free time can be increased or decreased depending on the applied irradiance of energy source.

Packaging and storage

Packaging

1kg bottle (UV blocked)

9kg bottle (UV blocked)

Storage

The 1K product must be stored in dark place without UV light. At the same time, the storage temperature should be maintained below 25°C(≤25°C)

The 'Best use before end date' of each batch is marked on the product label. For the best performance of the product, it is recommended to be used within the end date. After the expiration date, the performance of the product cannot be guaranteed. In this case, the product stored over the end date must be checked its properties before use.

Safety notes

According to the latest findings LUMISIL® 245 GEL 1K UV 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 245 GEL 1K UV



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

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The data presented in this medium 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 medium 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 information provided by us does 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 product for a particular purpose.