

# SiSiB® LR1360 LSR for mask

## INTRODUCTION

SiSiB® LR1360 is a two-component, platinum-catalyzed liquid silicone rubber designed for high-transparency applications such as masks and medical accessories. It offers excellent mechanical strength, long-term flexibility, and superior resistance to yellowing and heat aging.

## KEY FEATURES

- Excellent transparency
- High tensile and tear strength
- Good rebound resilience
- Long-term flexibility (-60°C to +250°C)
- Yellowing resistance
- Heat aging resistance
- Long pot life (up to 3 days at 20°C, sealed condition)
- Platinum-cured system suitable for medical accessories
- Complies with FDA 21 CFR 177.2600
- EN14350-2 Section 4.9 (volatile compounds) compliant
- RoHS and REACH compliant

## PHYSICAL PROPERTIES

Color	Transparent
Viscosity A (mPa·s)	850,000-1,000,000
Viscosity B (mPa·s)	750,000-900,000
Hardness (Shore A)	58-60
Tensile Strength (MPa)	Min.7.0
Elongation (%)	Min.400
Tensile Set (%)	Max.5.0
Tear Strength (kN/m)	Min.30
Linear shrinkage (%)	1.6-2.5

### Curing Conditions

Typical cure: 140°C × 10 minutes

Post cure: 200°C × 4 hours (recommended for optimal mechanical stability)

Actual curing time depends on mold temperature and part thickness.

*Above values are typical data and should not be used as specification.*

## APPLICATIONS

Platinum-catalyzed curing materials for medical devices and accessories.

Usage:

## SiSiB® LR1360 LSR for mask

Component A and B enter the mixer of the injection machine in a 1:1 ratio through metering and mixing equipment, and are then directly injected into the mold that has been preheated to 100°C to 160°C. After a few seconds, the cured elastomer is obtained.

SiSiB® LR1360 is designed for high-transparency, high-elasticity molded parts used in medical and protective applications. It offers reliable mechanical performance and long-term stability under demanding conditions. Typical applications include:

- Silicone masks
- Medical device accessories
- Respiratory components
- Transparent molded parts

### PROCESSING GUIDE

SiSiB® LR1360 is supplied as a two-component system (Part A and Part B) and must be mixed at a 1:1 ratio by weight using appropriate metering and mixing equipment.

The material is typically processed by liquid injection molding (LIM). The mixed silicone is injected into molds preheated to 100°C–160°C, where rapid curing occurs. Cure time depends on mold temperature, part thickness, and component geometry.

For optimal mechanical properties and dimensional stability, post-curing at 200°C for 2–4 hours is recommended, especially for applications requiring enhanced thermal or mechanical performance.

The mixed material exhibits a working time of up to 3 days at 20°C under sealed conditions. Elevated temperatures will shorten the pot life.

To prevent cure inhibition, avoid contact with amines, sulfur-containing compounds, organotin compounds, or other catalyst-poisoning substances. All tooling and surfaces should be clean and free of contaminants before processing.

### PACKING

SiSiB® LR1360 is supplied in 20Kg plastic drum, 200Kg steel drum.

## SiSiB® LR1360 LSR for mask

### STORAGE

In the unopened original container SiSiB® LR1360 has a shelf life of one year in a dry and cool place.

### HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

### NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.