

SiSiB® LR1351 Liquid Silicone Rubber

INTRODUCTION

SiSiB® LR1351 is a two-component, platinum-catalyzed liquid silicone rubber reinforced with fumed silica. It is designed for injection molding applications requiring high mechanical strength, good rebound resilience, and rapid vulcanization.

The cured elastomer exhibits stable physical properties, excellent tear resistance, and dimensional consistency. It is suitable for precision molded silicone parts across multiple industries.

KEY FEATURES

- Two-component, 1:1 mix ratio
- High strength and excellent tear resistance
- Good rebound resilience
- Rapid vulcanization
- Stable shrinkage performance
- UL94 HB flame rating
- Suitable for automated metering and mixing systems

PHYSICAL PROPERTIES

Appearance	Translucent
Density (g/cm ³)	1.13±0.015
Viscosity (mPa·s)	1,000,000 - 2,000,000
Hardness (Shore A)	46 - 54
Tensile strength (MPa)	Min. 7.5
Elongation at Break (%)	Min. 500
Tear strength (KN/m)	Min. 30
Shrinkage (%)	2.3
Flame Resistance	UL94-HB

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

APPLICATIONS

SiSiB® LR1351 is widely used in the production of molded silicone components for:

- Automotive parts
- 3C electronics
- Mobile phone protective cases
- Consumer electronic accessories

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PROCESSING GUIDE

- General precision rubber components

Mixing

Components A and B must be mixed at a 1:1 ratio by weight.

To achieve optimal properties:

- Ensure thorough and homogeneous mixing.
- Inadequate mixing may result in incomplete curing or reduced mechanical performance.
- Automatic metering and mixing equipment is recommended.
- For air-sensitive applications, mold venting or vacuum-assisted processing is advised.

Curing

SiSiB[®] LR1351 cures rapidly at suitable molding temperatures.

Cure time depends on product thickness and actual mold temperature.

Contact with compounds containing **amines, sulfur, or organotin catalysts** may inhibit curing.

Cleaning

Uncured silicone rubber can be cleaned with hydrocarbon solvents.

Polar solvents such as ketones and alcohols are not recommended.

Working Time

The formulation contains special additives. After mixing, the material should be processed as soon as possible.

PACKING

SiSiB[®] LR1351 is supplied in 20 kg cartons with inner plastic liner.

STORAGE

Store in a dry and cool place below 35°C in the original sealed containers.

In the unopened original container, the product has a shelf life of one year when stored in a dry and cool environment.

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

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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.

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