

# SiSiB® LR1362 LSR for Injection Molding

## INTRODUCTION

SiSiB® LR1362 is a two-component, platinum-catalyzed liquid silicone rubber designed for liquid injection molding (LIM). The material provides balanced mechanical strength, good tear resistance, and stable processing performance.

## KEY FEATURES

- 1:1 mix ratio
- Medium hardness (approx. 60 Shore A)
- Good tensile and tear strength
- Stable viscosity for injection processing
- Suitable for automated LIM systems
- Excellent processing consistency

## PHYSICAL PROPERTIES

Appearance	Transparent liquid
Viscosity (mPa·s)	A: 80000; B: 80000
Density (g/cm <sup>3</sup> )	1.08
Hardness (Shore A)	60
Tensile Strength (MPa)	6.2
Elongation (%)	310
Tear Strength (kN/m) Die B	21
Compression set (%) 22h, 175°C	2.1
Linear shrinkage (%)	2.0

Curing condition: 10 minutes at 150°C, and post cure 4 hours at 200°C.

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

## APPLICATIONS

SiSiB® LR1362 is suitable for the production of molded silicone components such as:

- Industrial sealing parts
- Gaskets and O-rings
- Consumer molded products
- General-purpose silicone components

## PROCESSING GUIDE

### Mixing

SiSiB® LR1362 is supplied as two components (Part A and Part B) and must

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be mixed at a 1:1 ratio by weight using suitable metering and mixing equipment. Proper and homogeneous mixing is essential to ensure complete curing and optimal mechanical properties.

### Processing

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.

### Working Time (Pot Life)

At 20°C, the mixed material has a safe working time of up to 2 days under sealed conditions. Higher ambient temperatures will shorten the working time. For stable processing performance, it is recommended to process the material as soon as possible after mixing.

### Curing

Curing occurs rapidly at elevated mold temperatures. Actual cure time depends on part thickness and heat transfer efficiency. Post-curing may be performed when enhanced mechanical stability or thermal resistance is required.

### Cure Inhibition

Avoid contamination with amines, sulfur-containing compounds, organotin compounds, or other catalyst-poisoning substances, as these may inhibit the platinum-catalyzed curing reaction. All tools, molds, and surfaces must be clean and free of contaminants before processing.

#### PACKING

SiSiB® LR1362 is supplied in 20Kg pail or 200kg drum.

#### STORAGE

In the unopened original container SiSiB® LR1362 has a shelf life of 12 months 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

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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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