

SiSiB® LR1371 Liquid Silicone Rubber

INTRODUCTION

SiSiB® LR1371 is a two-part, platinum-catalyzed addition-curing liquid silicone rubber (LSR) designed for high-speed injection molding. It offers excellent processing properties and mechanical performance after curing.

KEY FEATURES

- Addition-cure, 1:1 mix ratio
- Fast curing at elevated temperatures
- Good flowability, suitable for complex molds
- Long pot life for extended processing flexibility
- Excellent mechanical properties
- Medium viscosity, ideal for automated injection molding
- Food and baby product grade (compliance on request)

PHYSICAL PROPERTIES

| | |
|---------------------------------------|---------------------------|
| Appearance | Translucent viscous fluid |
| Mixing Ratio A:B | 1:1 |
| Viscosity, 25°C, mPa·s | 1,000,000-2,000,000 |
| Specific Gravity (g/cm ³) | 1.135-1.165 |
| Pot life at 25°C, h | 48-72 |

| | |
|---------------------------|---------|
| After cured, 130°C, 10min | |
| Hardness (Shore A) | 65-75 |
| Tensile Strength (MPa) | Min.7.5 |
| Tear Strength (kN/m) | Min.30 |
| Elongation (%) | Min.300 |

These values are typical and are not intended for use as specifications.

APPLICATIONS

SiSiB® LR1371 is primarily used for injection molding of high-performance silicone rubber parts in baby care products, food-grade components, and precision technical parts. Its excellent flowability and mechanical strength make it ideal for producing complex, translucent or transparent articles with strict safety and durability requirements.

PROCESSING GUIDE

For optimal performance, Components A and B must be thoroughly mixed at a precise 1:1 weight ratio using automated metering equipment that directly feeds materials into the mixing chamber. Incomplete mixing may result in

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partial curing or diminished mechanical properties, particularly in air-sensitive applications where mold venting or vacuum-assisted processing is recommended to prevent air entrapment.

The ready-to-use mixture of components A and B should be fed directly from the original container into the injection molding machine through a metering and mixing unit. The mixture, in a 1:1 ratio, is then injected into the heated mold.

PACKING

SiSiB® LR1371 is supplied in 20Kg pail or 200kg drum.

STORAGE

In the unopened original container SiSiB® LR1371 has a shelf life of 6 months in a dry and cool place. Protect from rain, direct sunlight, and contamination by acids, alkalis, or other impurities.

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.

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