

SiSiB® LR1342 LSR for Medical Device

INTRODUCTION

SiSiB® LR1342 is a two-component liquid silicone rubber for injection molding processes.

KEY FEATURES

- Excellent transparency
- Excellent tensile strength
- Superior resilience
- Excellent thermal stability and weather resistance (-50°C to 250°C)
- Anti-yellowing properties
- Heat aging resistance
- Regulatory Compliance:
USA FDA CFR21 Part 177.2600
European EN 14350-2 Section 4.9
RoHS Directive

PHYSICAL PROPERTIES

Item	Value	Method
Appearance	Transparent	Visual
Viscosity Part A (Pa.s)	650-900	DIN53 479A
Viscosity Part B (Pa.s)	650-900	DIN53 479A
Hardness (Shore A)	40-43	DIN53 305
Tensile Strength (MPa)	Min.7.5	DIN53 504 S2
Tear Strength (kN/m)	Min.30	ASTM D624 Die B
Elongation (%)	Min.600	DIN53504 S2
Linear shrinkage (%)	1.6-2.5	JISK 6301

Curing condition: 10 minutes at 140°C, and post cure 4 hours at 200°C.

APPLICATIONS

SiSiB® LR1342 liquid silicone rubber is commonly used in the production of medical devices and accessories, including pacifiers, baby teats, breast shields, and nose pads. Its excellent biocompatibility, durability, and safety make it ideal for these applications, ensuring reliable performance and comfort for sensitive use in healthcare products.

PROCESSING GUIDE

The pot-life of the mixture of the two components (closed vessel) at 20°C is usually three days. Increased temperatures reduce the pot-life.

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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.

At a mold temperature of 100-160°C, addition-crosslinking silicone rubbers typically vulcanize within a few seconds without releasing any decomposition products. The fast curing speed and easy demolding properties enable fully automated production, allowing for large quantities of items to be produced efficiently with short cycle times.

PACKING

SiSiB[®] LR1342A/B is supplied in 20Kg pail or 200kg drum.

STORAGE

In the unopened original container SiSiB[®] LR1342 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 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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