

SiSiB® LR9531 LSR for Screen Printing

INTRODUCTION

SiSiB® LR9531 is a two-component, addition-curing liquid silicone rubber designed for textile screen printing. The cured material provides excellent weatherability, transparency, dimensional stability, and strong adhesion to fabrics. It also offers outstanding flexibility and heat resistance above 250 °C, making it suitable for high-temperature textile printing processes.

KEY FEATURES

- Excellent weather and heat resistance (> 250°C)
- High transparency and dimensional stability
- Strong adhesion to textiles
- Environmentally friendly and non-toxic
- Easy mixing and stable curing behavior

PHYSICAL PROPERTIES

Appearance	Translucent liquid
Viscosity A, mPa·s	100,000
Viscosity B, mPa·s	2,900 (curing agent)
After curing at 25°C, 95 minutes	
Hardness (Shore A)	35
Specific Gravity (g/cm ³)	1.10
Tensile Strength (MPa)	5.5
Tear Strength (kN/m)	12
Shrinkage (%)	0.1
Elongation (%)	450

The above values are typical and not intended for specification purposes.

APPLICATIONS

SiSiB® LR9531 is designed for textile screen printing and coating applications, especially where durability, flexibility, and heat resistance are required. It is suitable for printing on cotton, polyester, nylon, blended fabrics, and elastic materials.

Typical uses include sportswear, labels, decorative coatings, and high-temperature resistant textile finishes. The cured silicone film provides excellent adhesion, soft hand feel, and long-lasting wash durability.

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PROCESSING GUIDE

Mix SiSiB® LR9531 base and curing agent in a 100: 2 ratio by weight.

Pour the silicone into the screen, and print by machine or manually. Set the screen mesh size to 80-100 mesh, use a scraper to move the mixture of silicone and curing agent back and forth on the screen. At this point, the colloid can be observed on the fabric. Then, use a baking dryer to dry it back and forth once, with the temperature controlled at around 120°C.

PACKING

SiSiB® LR9531 is supplied as a two-component system.

Component A (base) is packaged in a 20 kg pail, and Component B (curing agent) is packaged in a 400 g bottle.

STORAGE

In the unopened original container SiSiB® LR9531 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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