SiSiB® LR9910 Platinum-Cured Silicone Foam

INTRODUCTION

SiSiB® LR9110 is a two-component, platinum-cured silicone foam system designed for injection molding and calendering processes. The material features rapid vulcanization and controlled foaming behavior, resulting in low density, good flexibility, and stable mechanical performance.

After curing, the foam exhibits excellent compression set resistance, flame retardancy, and lightweight cushioning characteristics, making it suitable for sealing and shock-absorbing applications in electronic and industrial environments.

KEY FEATURES

- Platinum addition-cure system
- Controlled foaming structure
- Low density after curing
- Rapid vulcanization
- Excellent compression set resistance
- Flame retardant performance (UL 94 V0/V1)
- Suitable for injection molding and calendering processes

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Appearance A	Light yellow	Visual
Appearance B	Black / Dark grey	Visual
Viscosity A (mPa·s)	9.0×10^4 -13.0×10^4	DIN 53019
Viscosity B (mPa·s)	9.0×10^4 -13.0×10^4	DIN 53019
Mixing Ratio (A:B)	1:1	

Cured Properties		
(Test specimen cured at 50°C × 30 min + 180°C × 60 min)		
Property	Typical Value	Test Method
Density (g/cm³)	0.32 – 0.38	ASTM D792
Hardness (Shore A)	24 – 28	ASTM D2240
Tensile Strength (kPa)	> 300	ASTM D412
Elongation at Break	> 90	ASTM D412
Tear Strength (kN/m)	> 1.0	ASTM D624 (B)
Water Absorption, 24	< 5.0	Internal Test
Flammability	V0 / V1	UL 94

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Compression Set (%)	< 5.0	ASTM D1056 **

**ASTM D1056 Test D (50% × 24 h × 100°C)

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

APPLICATIONS

SiSiB® LR9110 is designed for lightweight silicone foam components requiring reliable sealing, cushioning, and flame-retardant performance. The cured foam combines low density with stable elastic recovery and good compression set resistance, making it suitable for long-term sealing and shock-absorbing applications. It is particularly appropriate for electronic enclosure sealing systems, industrial cushioning elements, vibration-damping pads, and flame-retardant foam components used in both industrial and consumer products.

PROCESSING GUIDE

SiSiB® LR9110 is supplied as a two-component system (Part A and Part B). The components must be mixed thoroughly at a 1:1 ratio by weight using appropriate metering and mixing equipment to ensure uniform foaming and complete curing.

The material is suitable for dynamic injection molding and calendering processes. Accurate process control is essential to achieve consistent foam density and uniform cell structure.

At 25°C, the mixed material provides a working time of approximately 6–8 minutes. The actual working time may vary depending on ambient temperature and molding conditions.

Curing parameters should be optimized according to part thickness, mold temperature, and equipment configuration.

To prevent cure inhibition, avoid contamination with sulfur-, nitrogen-, or tin-containing substances. All processing equipment and molds must be clean and free from catalyst-inhibiting residues.

PACKING

SiSiB® LR9110 is supplied as a two-component system (Part A and Part B).

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Standard packaging:
Part A: 20 kg pail or 200 kg drum
Part B: 20 kg pail or 200 kg drum
Other packaging options are available upon request.

STORAGE

Store in a cool and dry place, protected from direct sunlight and moisture.

In the unopened original container, the product has a shelf life of 12 months under recommended storage conditions.

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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