SiSiB® LR2765 Antistatic Liquid Silicone Rubber

INTRODUCTION

SiSiB® LR2765 is a two-component, platinum-catalyzed liquid silicone rubber designed for antistatic applications. The material features good flowability, semi-transparency, and stable mechanical properties.

It can be cured at room temperature or under heat and is suitable for molding applications requiring electrostatic dissipation and surface cleanliness.

KEY FEATURES

- Addition-cure (platinum system)
- Excellent flowability
- Semi-transparent appearance
- Antistatic performance
- Good processability
- Suitable for injection and casting applications

PHYSICAL PROPERTIES

Appearance	Translucent viscous liquid
Viscosity A (25°C, mPa·s)	4,000,000-6,000,000
Viscosity B (25°C, mPa·s)	4,000,000-6,000,000
Mixed Density (25°C)	1.115-1.145
Mixed Viscosity (25°C, 104*mPa·s)	4,000,000-6,000,000
Mixing Ratio	1:1
Pot life @ 25°C (Min)	240-480
Curing 130°C × 10min	
Appearance	Translucent
Hardness (Shore A)	62-68
Tensile Strength (MPa)	Min. 9
Elongation (%)	Min. 300
Tear Strength (kN/m)	Min. 35
Surface Resistivity (Ω)	1.0×10^{10}-10^{12}

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

APPLICATIONS

SiSiB® LR2765 is specifically engineered for electronic applications requiring controlled electrostatic dissipation (ESD). The cured elastomer can effectively reduce static charge accumulation and minimize dust

attraction on silicone surfaces.

It is particularly suitable for components used in electrostatic-sensitive environments where protection of delicate electronic circuits and assemblies is required. Typical applications include:

- Electronic housings and protective over-molding
- Connectors and sensor encapsulation
- Antistatic keypads and control interfaces
- Wearable electronic device components
- 3C electronic parts requiring ESD control

PROCESSING GUIDE

SiSiB® LR2765 is supplied as a two-component platinum-cured system (Part A and Part B) and must be mixed at a 1:1 ratio by weight using precision metering equipment. Uniform mixing is essential to ensure consistent mechanical properties and stable electrostatic performance throughout the molded part.

Vacuum degassing is recommended to eliminate entrapped air and ensure uniform electrical characteristics across the finished component.

The material is suitable for liquid injection molding (LIM) and controlled casting processes. Typical curing condition is 130°C for approximately 10 minutes. Cure parameters should be optimized based on part thickness and mold temperature.

To maintain stable antistatic performance, avoid contamination with substances that may interfere with the platinum curing system, including compounds containing phosphorus, nitrogen, sulfur, or organotin materials. All tools and molds must be clean and free from catalyst-inhibiting residues.

PACKING

SiSiB® LR2765 is supplied in 20Kg pail and 200Kg Drum.

STORAGE

In the unopened original container it has a shelf life of one year in a dry and cool place.

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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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