

SiSiB® LR9760 Flame Retardant Liquid Silicone Rubber

INTRODUCTION

SiSiB® LR9760 is a product of 1:1 two-component liquid silicone rubber with excellent physical property and fire resistance. It is widely used in the manufacturing of automotive components, 3C electronic materials, kitchenware, and various other industrial applications.

KEY FEATURES

- Fast curing
- Flame retardant UL94 V-0, halogen-free formulation
- Excellent temperature resistance (-50°C - 180°C)

PHYSICAL PROPERTIES

Appearance	Off-white viscous liquid
Mixing Ratio A:B	1:1
Viscosity, 25°C, mPa·s	700,000-1,700,000
Specific Gravity (g/cm ³)	1.34
Pot life at 25°C, h	24
After cured, 130°C×10min	
Hardness (Shore A)	60
Shrinkage (%)	2.0-2.5
Tensile Strength (MPa)	Min.4.0
Tear Strength (kN/m)	Min.15
Elongation (%)	Min.200

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

APPLICATIONS

SiSiB® LR9760 liquid silicone rubber is commonly used in flame-retardant silicone products required for overmolded parts and sealing components.

PROCESSING GUIDE

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. Increased temperatures reduce the pot-life.

At a mold temperature of 100-160°C, addition-crosslinking silicone rubbers typically vulcanize within a few minutes without releasing any decomposition products. The fast-curing speed and easy demolding properties enable fully

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automated production, allowing for large quantities of items to be produced efficiently with short cycle times.

PACKING

SiSiB® LR9760A/B is supplied in 20Kg pail or 200kg drum.

STORAGE

In the unopened original container with the temperature below 35°C SiSiB® LR9760 has a shelf life of 12 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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