

SiSiB® HR1980 Addition-Curing HCR

INTRODUCTION

SiSiB® HR1980 is a platinum-cured, high consistency silicone rubber (HCR) compound developed for molding and extrusion processes. It is formulated with fumed silica as reinforcing filler, and is especially suitable for the production of transparent silicone rubber articles.

SiSiB® HR1980 is based on an addition-curing platinum system, which allows low-temperature vulcanization (as low as 120°C), produces no peroxide-related byproducts, and offers excellent tear strength and process efficiency.

KEY FEATURES

- Platinum-catalyzed addition cure
- No peroxide decomposition byproducts
- Odorless and low-temperature curable (120°C)
- High tear strength and mechanical durability
- Compliant with FDA and LFGB regulations
- Suitable for transparent silicone products

PHYSICAL PROPERTIES

Item	Value	Test method
Appearance	Transparent	Visual
Density, g/cm ³	1.18-1.25	ASTM D792
Hardness (shore A)	77-83	ASTM D2240
Tensile Strength (Mpa)	Min.8.5	ASTM D412
Elongation (%)	Min.220	ASTM D412
Tear Strength (Die B, kN/m)	Min.20	ASTM D624

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

CURING CONDITIONS

Recommended curing conditions: 120°C × 5 minutes

Catalyst system: Platinum-based, two-part

- Part A dosage: 0.4-0.6 wt%
- Part B dosage: 0.8-2.5 wt%

APPLICATIONS

SiSiB® HR1980 is suitable for the production of transparent products such as kitchenware, sealing rings, extruded profiles, and food-contact elastomeric parts. It can be processed by molding or extrusion.

SiSiB[®] HR1980 Addition-Curing HCR

PACKING

SiSiB[®] HR1980 is supplied in 20Kg carton.

STORAGE

In the unopened original container, it has a shelf life of 9 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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