

SiSiB® HR5180 HCR for Molding

INTRODUCTION

SiSiB® HR5180 is a translucent, precipitated silica-filled silicone rubber designed for compression molding applications. It offers good physical and electrical properties, along with excellent aging resistance within a temperature range of -50°C to +200°C.

KEY FEATURES

- Complies with FDA & ROHS requirements
- Good mechanical strength
- Good electrical insulation properties
- Excellent aging resistance

PHYSICAL PROPERTIES

	Value	Method
Appearance	Milk-white, translucent	
Density (g/cm ³)	1.20-1.24	ASTM D792

After Curing

Hardness (Shore A)	80+/-2	ASTM D2240
Tensile Strength (MPa)	Min. 7.0	ASTM D412
Elongation (%)	Min. 160	ASTM D412
Tensile Set (%)	Max. 5.0	ASTM D412
Tear Strength (KN/m)	Min. 18.0	ASTM D624
Compression Set (180°C*22h)	Max. 30.0	ASTM D395
Rebound Resilience (%)	Min. 45.0	ASTM D2240

Recommended Curing: 175°C for 5 minutes

Curing Agent: 2,5-Dimethyl-2,5-di(tert-butylperoxy)hexane

Recommended Dosage: 0.65 wt%

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

APPLICATIONS

- Keypads & Seals: Durable buttons, O-rings, gaskets.
- Industrial Components: Sealing elements, miscellaneous parts
- Electrical Parts: Insulators, connectors, and low-voltage components.

PACKING

SiSiB® HR5180 is supplied in 20Kg box, with plastic bag inside.

STORAGE

In the unopened original container, SiSiB® HR5180 has a shelf life of one

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year 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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