

# SiSiB® HR8770 Economic High Tear Strength HCE for Molding

## INTRODUCTION

SiSiB® HR8770 is an economic high tear strength fumed silicone rubber designed for molding applications. It offers excellent durability and tear resistance, making it ideal for creating robust molds that can withstand repeated use.

## KEY FEATURES

- Excellent transparency and mechanical properties.
- Stable processability
- Good yellowing resistance
- Available in 30, 40, 50, 60, and 70 durometer grades
- Complies with FDA regulations

## PHYSICAL PROPERTIES

Property	Value	Method
Appearance	Transparent	
Density (g/cm <sup>3</sup> )	1.17-1.23	ASTM D792
After curing		
Hardness (Shore A)	70+/-2	
Tensile Strength (MPa)	Min. 8.5	ASTM D412
Elongation (%)	Min. 300	ASTM D412
Tensile Set (%)	Max. 8.0	ASTM D412
Tear Strength (KN/m)	Min. 35.0	ASTM D624
Rebound Resilience (%)	Min. 40.0	ASTM D2240
After post-curing		
Hardness (Shore A)	75+/-2	ASTM D2240
Tensile Strength (MPa)	Min. 8.0	ASTM D412
Elongation (%)	Min. 250	ASTM D412
Tear Strength (KN/m)	Min. 20.0	ASTM D624

Curing Condition	
Curing Agent	2,5-Dimethyl-2,5-di(tert-butylperoxy) hexane
Curing Agent Content	0.65%
Cure	175°C / 5min
Post-cure	200°C / 4h

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### APPLICATIONS

SiSiB® HR8770 provides superior flexibility, resilience, and ease of handling, ensuring reliable performance in various industrial molding processes. It is a cost-effective solution for applications that require both high strength and long-lasting performance.

### PACKING

SiSiB® HR8770 is supplied in 20Kg box, with plastic bag inside.

### STORAGE

In the unopened original container, SiSiB® HR8770 has a shelf life of one 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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