

SiSiB® HR8680 General Fumed HCR for Extrusion

INTRODUCTION

SiSiB® HR8680 is a fumed silica-reinforced high consistency silicone rubber (HCR) specifically designed for extrusion applications. It offers excellent transparency, balanced mechanical properties, and stable processing performance. The product is suitable for manufacturing high-quality extruded silicone components requiring consistent dimensional stability and resistance to yellowing.

KEY FEATURES

- Fumed silica-reinforced structure
- Excellent transparency and mechanical strength
- Stable extrusion processability
- Good resistance to yellowing
- Available in 40-80 Shore A hardness grades
- Compliant with FDA and LFGB regulations

PHYSICAL PROPERTIES

After curing (175°C × 5 min)	
Appearance	Transparent
Density (g/cm ³)	1.18-1.25
Rebound Resilience (%)	Min. 40.0
Hardness (Shore A)	80+/-2
Tensile Strength (MPa)	Min. 8.0
Elongation (%)	Min. 200
Tensile Set (%)	Max. 10.0
Tear Strength (KN/m)	Min. 20.0

After post-curing	
Hardness (Shore A)	85+/-2
Tensile Strength (MPa)	Min. 7.0
Elongation (%)	Min. 150
Tear Strength (KN/m)	Min. 16.0

Curing Agent Content	0.65%
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The above values are typical and not intended for specification purposes.

APPLICATIONS

SiSiB® HR8680 is suitable for extrusion manufacturing of:

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- Silicone tubes
- Sealing joint strips
- Electrical wire and cable insulation
- Various transparent extruded silicone products

PACKING

SiSiB® HR8680 is supplied in 20Kg box, with plastic bag inside.

STORAGE

When stored in the original unopened packaging in a cool and dry place, the shelf life is 12 months from the date of manufacture.

HANDLIN

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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