

# Technical Data Sheet

Silicone Rubber Sheeting SuperVac



## Material

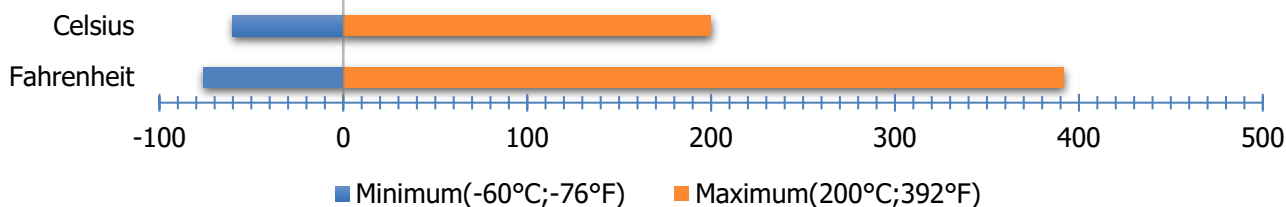
High Tear Resistant and High Elongation Vacuum Grade Silicone



## Available Grades

Standard 1.8m wide in 50° shore A, can be produced in special hardnesses on request

## Temperature Range



## General Information

Premium quality high tear and high elongation Silicone membrane sheets for vacuum forming applications.

SuperVac sheetings have tear-stop technology, resulting in an extremely high tear resistance, as well as high elongation properties, excellent abrasion resistance, increased durability and life-span and are also repairable.

## Environmental Resistance

Silicone rubber products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet light
- Corona discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

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SILEX SILICONES LTD

Silex Ltd, Unit 10, Oakhanger Farm Business Park, Oakhanger, Bordon, Hampshire, GU35 9JA. Tel 00 44 1420 470360, Fax 00 44 1420 472802

E-Mail: [sales@silex.co.uk](mailto:sales@silex.co.uk), Website: [www.silex.co.uk](http://www.silex.co.uk), Registered company number: 1951973. Place of registration: England & Wales. Directors: K Soudah, S.J. Fearn, P Millson, R Soudah

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## Availability Format

- Supplied in continuous roll lengths up to 10m long
- Widths of 1800mm (standard)
- 1.0mm, 1.5mm, 2.0mm, 3.0mm (standard thickness)
- Translucent with a blue tint

## Typical Applications

Membranes in vacuum forming machines: Used in industries such as:

- Aerospace
- Automotive
- Composites
- Energy
- Furniture Lamination

## Mechanical Properties

Property	Units	Typical Value	Test Method
Hardness	Shore A $\pm 5mm$	50	DIN 7619-1
Tensile Strength	Mpa (PSI)	10 (1450)	ISO 37 type 1
Elongation to Failure	%	750	ISO 37 type 1
Tear Strength	N/mm (lb./in.)	38 217	ASTM D624 die B
Compression Set 25% compression 24 hrs at 150°C 30min recovery	%	26	DIN/ISO 815 type B

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## General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	0.24 W.m <sup>-1</sup> .K <sup>-1</sup>	VDE 0304
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	
Dielectric Strength	23 kV.mm <sup>-1</sup>	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 <sup>-4</sup>	VDE 0303
Volume Resistivity	3x10 <sup>15</sup> Ω.cm	VDE 0303

## Accreditations

- REACH compliant and ROHS compliant
- FAR 25/JAR 25/CS 25, Appendix F, Part 1, (a)(1)(iv) (a)(1)(v) horizontal flammability test
- Automotive Standard PART 571MVSS302

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