

SILVAC50SH

Vacuum Grade Silicone Rubber Sheet

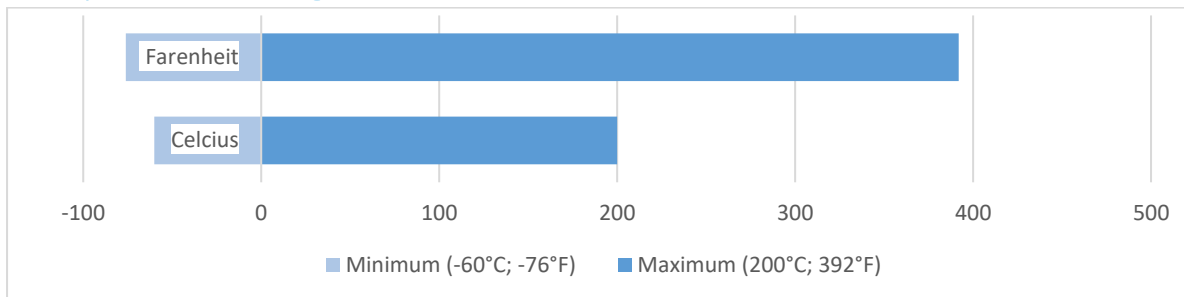
Material

High tear resistant and high elongation vacuum grade silicone.

Available Grades

Standard 1.8m wide in 50° Shore A. Can be produced in special hardness on request.

Temperature Range



General Information

Premium quality high tear and high elongation Silicone membrane sheets for vacuum forming applications. SILVAC sheetings have an extreme high tear resistance as well as high elongation, excellent abrasion resistance, longevity and are repairable.

Material compliance

- 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

Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. The information contained within this data sheet is subject to change without notice.

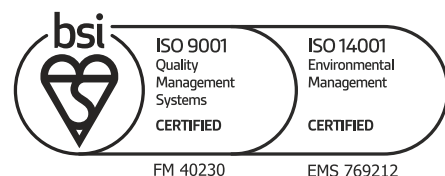
Viking Extrusions Ltd – Ivy Arch Road, Worthing, West Sussex, BN14 8BX, UK

Company Number: 2634482UK

VAT Number: GB587651394

Registered in England & Wales

REV 02 – Last Updated: 12/06/24



SILVAC50SH

Vacuum Grade Silicone Rubber Sheet

Typical Applications

- Aerospace
- Automotive
- Composites
- Energy
- Furniture Lamination

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

Material Properties

Property	Units	Spec Limits	Typical Value	Test Method
Hardness	Shore A	±5°	50	ASTM D2240 DIN 53505
Tensile Strength	MPa (psi)	7.0 min (1015 min)	10 (1450)	BSISO 37 ASTM D412 die C
Elongation to Failure	%	600 min	750	BSISO 37 ASTM D412 die C
Tear Strength	N/mm (lb./in.)	35.0 min 200 min	38 217	ASTM D624 die B
Compression Set 25% compression 24 hrs at 150°C 30min recovery	%	-	26	BS 903 pt A6 type B DIN/ISO 815 type B

These figures are only intended as a guide and should not be used in preparing specifications.

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-1.K.1	VDE 0304
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm-1	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. The information contained within this data sheet is subject to change without notice.