

Technical Data Sheet

Silicone Rubber Sheetting SuperVac



Material

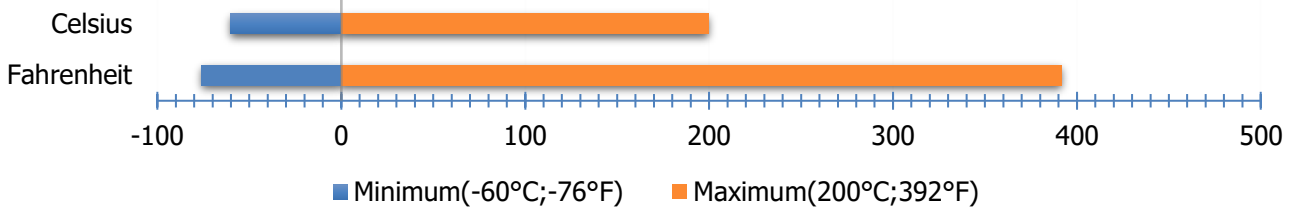
High Tear Resistant and High Elongation Vacuum Grade Silicone



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 an extreme high tear resistance as well as high elongation, excellent abrasion resistance, longevity and are 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 LTD

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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	Spec Limits	Typical Value	Test Method
Hardness	Shore A	±5mm	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

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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 ⁻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

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

Additional Information

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