

Technical Data Sheet

Silicone Rubber Sheeting

Glass Reinforced



Material

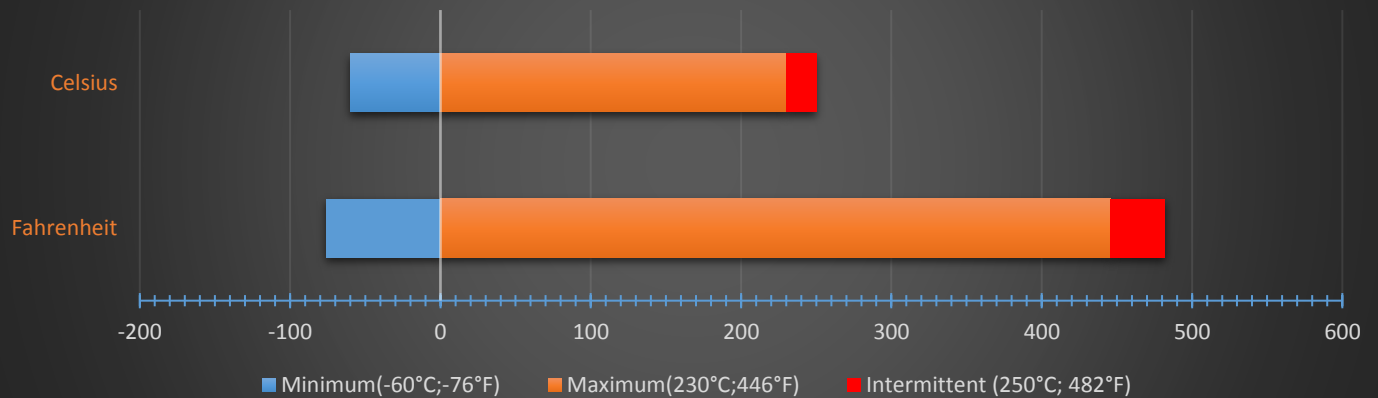
1 Ply Glass Reinforced Silicone Rubber Sheet

Available Grades

Red Oxide, 60° shore A from stock, other hardnesses available on request

Temperature

Temperature Range



General Information

1 ply glass reinforced high quality silicone sheet

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 LIMITED

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E-Mail: info@silex.co.uk, Website: www.silex.co.uk, Registered in England No. 1951973

Directors: N J R Soudah, S J Fearn

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Availability Format

- ✓ Supplied in continuous roll lengths
- ✓ Widths of up to 1000mm, wider available on request
- ✓ Capability to colour match

Typical Applications

- ❖ Reinforced gaskets
- ❖ Seals and fabrications
- ❖ Automotive hose building in uncured format
- ❖ Heater pads
- ❖ Fabricated articles

Mechanical properties

COMPOUND				
Property	Units	SPEC Limits	Typical Value	Test Method
Hardness	Shore A	60 ± 5	61	ASTM D2240 DIN 53505
Tensile Strength	MPa (PSI)	5.5 798 min	7.1 1030	BSISO 37 ASTM D412 die C
Elongation to failure	%	200 min	255	BSISO 37 ASTM D412 die C
Tear Strength	N/mm (lb./in.)	10.0 min 57	14.7 84	ASTM D624 die B
Adhesion Strength	<u>N/25mm</u>	9 min	12	SEWI 593

In-house capabilities for extensive industry specific testing available on request

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FABRIC – GLASS CLOTH

Property	Units	Value
Composition	Warp Weft	Glass Glass
Weight	g/m ²	204
Warp count Weft count	d'tex	680 680
Weave		Plain
Thickness	mm	0.18
Reference		EKC161

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

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FINISHED ARTICLE PROPERTIES

Specification	Construction (mm) (Sil + Glass + Sil)	Thickness (mm)	Width (mm)
1.0mm	0.40 + 0.20 + 0.40	1.0 ±0.3	1000 nominal
1.5mm	0.65 + 0.20 + 0.65	1.5 ±0.3	1000 nominal
2.0mm	0.90 + 0.20 + 0.90	2.0 ±0.3	1000 nominal
3.0mm	1.40 + 0.20 + 1.40	3.0 ±0.3	1000 nominal
4.0mm	1.90 + 0.20 + 1.90	4.0 ±0.4	1000 nominal
5.0mm	2.40 + 0.20 + 2.40	5.0 ±0.4	1000 nominal
6.0mm	2.90 + 0.20 + 2.90	6.0 ±0.5	1000 nominal

Accreditations

- ❖ REACH compliant and RoHS compliant
- ❖ FDA compliant*

Additional Information

*Please note that the Silicone Rubber used is FDA compliant, however, the glass fibre reinforcement is not FDA.

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