

# Technical Data Sheet

Silicone Rubber Sheetting Glass Reinforced



## Material

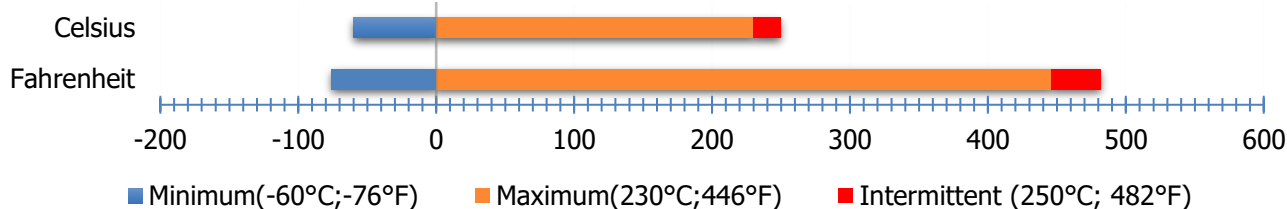
1 Ply Glass Reinforced Silicone Rubber Sheet



## Available Grades

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

## Temperature Range



## General Information

Our specially formulated 1 ply glass reinforced sheeting for applications where supported materials are needed to reduce stretch and elongation. It can be applied to fabrics such as glass fibre, polyester and Kevlar® cured and uncured or on polythene liners in a catalysed uncured state.

## 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

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.

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## Availability Format

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

## Typical Applications

- Reinforced gasket
- 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	60	ASTM D2240 DIN 53505
Tensile Strength	Mpa (PSI)	5.5 min (798 min)	10 (1450)	BSISO 37 ASTM D412 die C
Elongation to Failure	%	200 min	400	BSISO 37 ASTM D412 die C
Tear Strength	N/mm (lb./in.)	10.0 min 57	22 125	ASTM D624 die B
Adhesion Strength	<u>N/25mm</u>	9 min	12	SEWI 593

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## Fabric – Glass Cloth

Property	Units	Value
Composition	Warp Weft	Glass Glass
Weight	g/m <sup>2</sup>	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 <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

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## Finished Article Properties

Specification	Construction (mm) (SIL+Glass+SIL)	Thickness (mm)	Width (mm)
1.5mm	0.65 + 0.20 + 0.65	1.5 ±0.2	1000 max
2.0mm	0.90 + 0.20 + 0.90	2.0 ±0.2	1000 max
3.0mm	1.40 + 0.20 + 1.40	3.0 ±0.2	1000 max
4.0mm	1.90 + 0.20 + 1.90	4.0 ±0.2	1000 max
5.0mm	2.40 + 0.20 + 2.40	5.0 ±0.2	1000 max
6.0mm	2.90 + 0.20 + 2.90	6.0 ±0.2	1000 max

## Accreditations

- FDA 21 CFR 177-2600 compliant\*
- REACH compliant and ROHS 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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