

# Technical Data Sheet

Silicone Rubber Sheeting Glass Reinforced



## Material

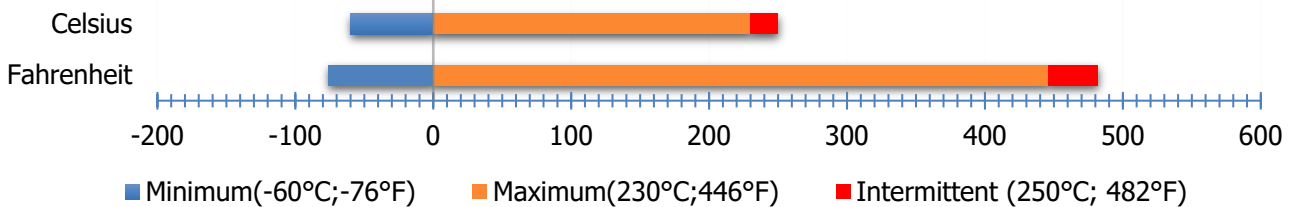
1 Ply Glass Reinforced Silicone Rubber Sheet



## Available Grades

Red Oxide, 60° shore A from stock, other hardnesses 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 SILICONES LTD

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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
- Widths of 1000mm, wider available on request
- Capability to colour match
- Standard colour – red iron oxide

## 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<br>DIN 53505     |
| Tensile Strength      | Mpa<br>(PSI)      | 5.5 min<br>(798 min) | 10<br>(1450)  | BSISO 37<br>ASTM D412 die C |
| Elongation to Failure | %                 | 200 min              | 400           | BSISO 37<br>ASTM D412 die C |
| Tear Strength         | N/mm<br>(lb./in.) | 10.0 min<br>57       | 22<br>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<br>Weft     | Glass<br>Glass |
| Weight                   | g/m <sup>2</sup> | 204            |
| Warp Count<br>Weft Count | d'tex            | 680<br>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)<br>(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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