



**MATERIAL**

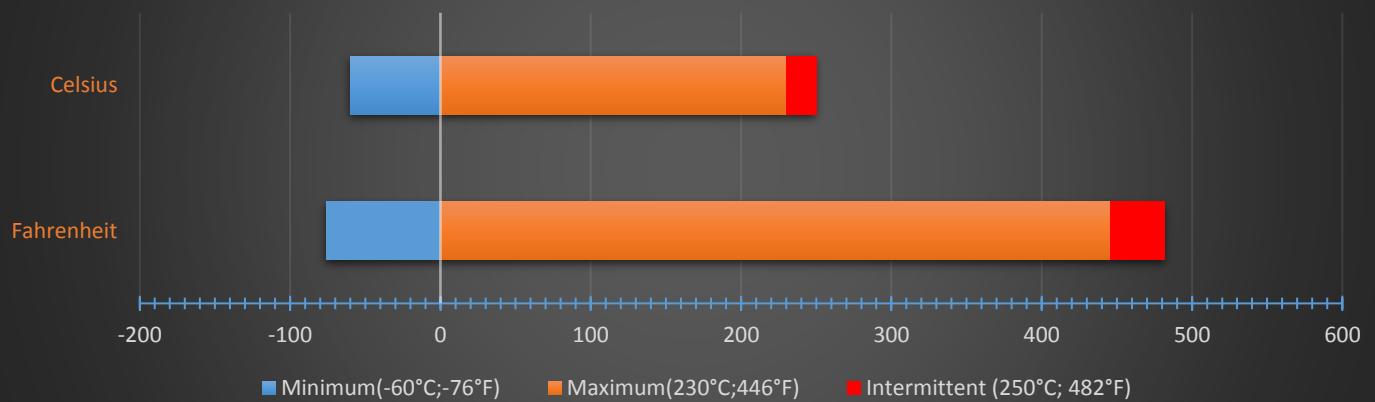
1 Ply Glass Reinforced Silicone Rubber Sheet

**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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**MVQ SILICONES GMBH**

Industriepark Hertzstrasse, Hertzstrasse 11, D-69469 Weinheim, Deutschland, Tel 0049 6201 259040, Fax 0049 6201 2590410

E-Mail: [info@mvq-silicones.de](mailto:info@mvq-silicones.de), Website: [www.mvq-silicones.de](http://www.mvq-silicones.de), Registered in Germany No. HRB 701069

Director: K Soudah

# TECHNICAL DATA SHEET

## **SILICONE RUBBER SHEETING**

### **GLASS REINFORCED**



#### ***AVAILABILITY FORMAT***

- ✓ Supplied in continuous roll lengths up to 10 meter
- ✓ 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

#### ***ACCREDITATIONS***

- ❖ REACH compliant
- ❖ RoHS compliant
- ❖ FDA compliant\*

#### ***ADDITIONAL INFORMATION***

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

#### ***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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***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 <sup>2</sup>	204
WARP COUNT WEFT COUNT	d´tex	680 680
WEAVE		Plain
THICKNESS	mm	0.18
REFERENCE		EKC161

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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

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