

# VGF60SH

## Glass Fibre Reinforced Silicone Rubber Sheet

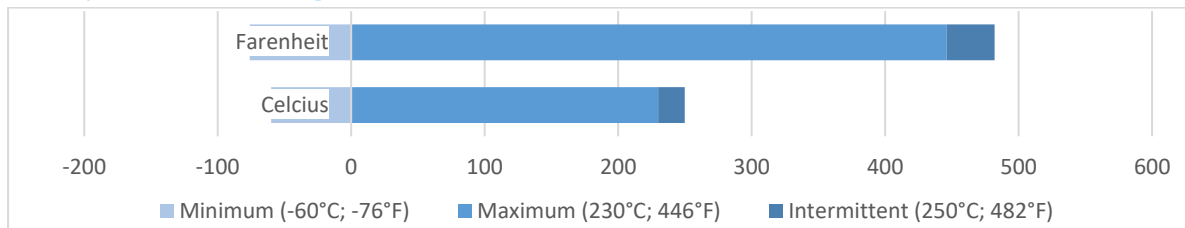
### Material

1 ply glass fibre reinforced silicone rubber sheet

### Available Grades

Red oxide, 60° Shore A. 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.

### Material compliance

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

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

### Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

### Typical Applications

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

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### Material Properties

Property	Units	Compound Spec Limits	Typical Value	Test Method
<b>Hardness</b>	° Shore A	60 ±5	60	ASTM D2240 DIN 53505
<b>Tensile Strength</b>	MPa (PSI)	5.5 min (798 min)	10 (1450)	BSISO 37 ASTM D412 die C
<b>Elongation to Failure</b>	%	200 min	400	BSISO 37 ASTM D412 die C
<b>Tear Strength</b>	N/mm (lb./in.)	10.0 min (57)	22 (125)	ASTM D624 die B
<b>Adhesion Strength</b>	N/25mm	9 min	12	SEWI 593

Fabric – Glass Cloth		
Property	Units	Spec Limits
<b>Composition</b>	Warp Weft	Glass Glass
<b>Weight</b>	g/m <sup>2</sup>	204
<b>Warp Count</b>	d'tex	680
<b>Weft Count</b>		680
<b>Weave</b>		Plain
<b>Thickness</b>	mm	0.18
<b>Reference</b>		EKC161

These figures are only intended as a guide and should not be used in preparing specifications.

### 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 <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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