

# Technical Data Sheet

## Solid Silicone Sheeting

### MF775 Flame Retardant



#### Material

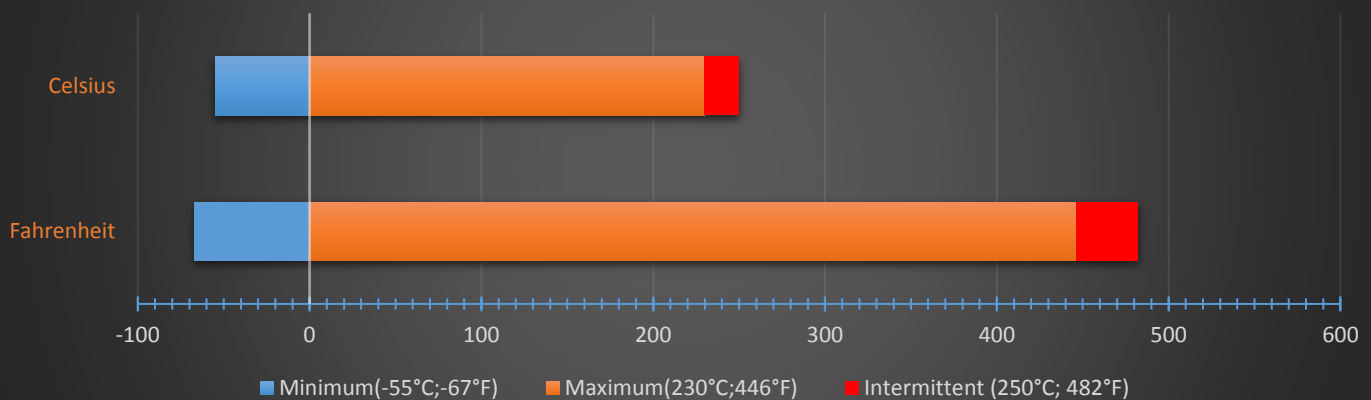
MF775

#### Available Grades

1m wide 73°shore A grey from stock, other colours and formats available on request

#### Temperature

### Temperature Range



#### General Information

Our Flame Retardant Sheeting has been specifically developed for use in the mass transit industry and similar other safety conscious industries. The grade has been tested to and complies with BS6853 Category 1A NF F 16-101 I2, F0, CEN TS 45545-2-HL2 for R1, R7, R22 and R23 materials.

These products also meet FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(i) and (a)(1)(ii) vertical and (a)(1)(v) horizontal flammability tests. Automotive Standard PART 571FMVSS302. UL94 V0 at 3mm and UL94 V1 on 2mm (not UL Approved). Kindly note that this material has been independently tested to the UL94 criteria but is not UL listed as such.

#### Environmental Resistance

Silicone rubber products have an excellent resistance to:

- ❖ Ozone
- ❖ Oxidation
- ❖ Ultraviolet light
- ❖ Corona discharge
- ❖ Cosmic radiation
- ❖ Ionising radiation
- ❖ Weathering in general

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale. The information contained within this data sheet is subject to change without notice. Issue date 01.01.2019.

#### SILEX SILICONES LIMITED

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E-Mail: [info@silex.co.uk](mailto:info@silex.co.uk), Website: [www.silex.co.uk](http://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 1000mm as standard
- ✓ Pressure sensitive adhesive backed if required
- ✓ Punched and Water jet gaskets
- ✓ Full range of standard colours
- ✓ Capability to colour match
- ✓ Strips and fabricated articles

#### Typical Applications

- ❖ Mass transit
- ❖ Automotive
- ❖ Electronics
- ❖ Construction
- ❖ Heating and Ventilation (HVAC)
- ❖ Industrial
- ❖ Insulations
- ❖ Lighting and Marine
- ❖ Aerospace

#### Mechanical Properties

Property	Units	Typical Value	Test Method
Hardness	Shore A (±5)	73	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa (PSI)	10.2 1480	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to failure	%	320	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Compression set 24 Hrs @ 175°C	%	20	BS 903 pt A6 type B DIN/ISO 815 type B
Compression set 22 Hrs @ 350°F	%	20	ASTM D395 method B type 2

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

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#### General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	37.0 %	ASTM D2863
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	IEC 60250
Dissipation Factor	3x10 <sup>-3</sup>	IEC 60250
Volume Resistivity	8x10 <sup>15</sup> Ω.cm	IEC 60093

#### Accreditations

- ❖ BS 6583 Cat 1A
- ❖ NF F 16-101 12, F0
- ❖ CEN TS 45545-2-HL2 for R1, R7, R22 and R23 materials
- ❖ UL94V0 @ 3mm
- ❖ LUL 1-085
- ❖ REACH compliant and RoHS compliant

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