

**MF775 Flame Retardant Solid Silicone Rubber****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 1 NF F 16-101 I2, F0, CEN TS45545-2 – HL2 for R1 and R6 materials. These products meet FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(i), (a)(1)(ii) vertical and (a)(1)(iv), (a)(1)(v) horizontal flammability tests. Automotive Standard PART 571FMVSS302. UL94 V0 at 3mm and UL94 V1 on 2mm (Not UL Approved).

Environmental Resistance

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Typical Applications

Aerospace, Automotive, Construction, Marine, Mass Transit and MOD

Temperature Range

-60°C (- 76°F) to 230°C (446°F) and up to 250°C (482°F) intermittent

Test	Result	Standard
Brittle point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	35.0%	BS 2782 Part 1
Thermal Conductivity	0.24 W.m-1 .K-1	VDE 0304
Radiation Resistance	>105 Grays (107 Rads) typical	
Dielectric Strength	23 kV.mm-1	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10-4	VDE 0303
Volume Resistivity	3x1015Ω.cm	VDE 0303

Property	Units	Spec Limits	Typical Value	Test Method
Hardness	Shore A	70±5	70	ASTM D2240 DIN ISO 7619-1
Tensile Strength	Mpa Psi	5.5 min 798 min	7.0 1015	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	130 min	190	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Compression Set 24 Hours @ 150°C	%	35 max	20	BS 903 pt A6 type B DIN/ISO 815 type B
Compression Set 22 Hours @ 300°F	%	35 max	20	ASTM D395 method B Type 2

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied

