

Solid Silicone Sheet – MF775

Flame Retardant Sheeting

Grades MF775

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

Specifications

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 V1 on 2mm (Not UL Approved).

Environment Resistance

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

Availability

Sheeting and Gaskets.

Supplied in continuous roll lengths
Widths up to 1800mm.
Pressure sensitive adhesive backing.
Punched and water Jet gaskets.
Full range of standard colours.
Capability to colour match.

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 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm ⁻¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

Typical Applications

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

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Mechanical Properties

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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

Extra Information

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