

Flame Retardant Silicone Sheeting Datasheet

Product Code: RC0323-FR

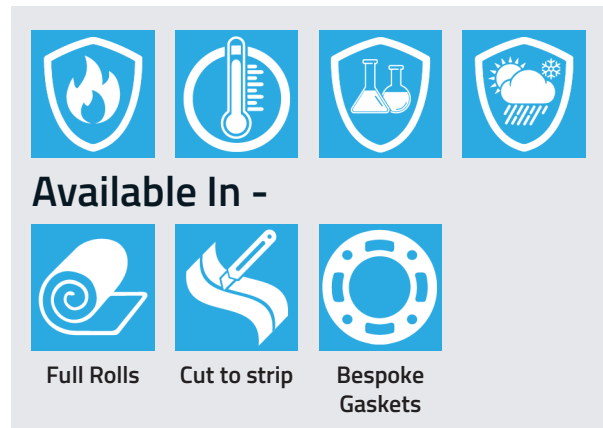
Product Description

Our flame retardant silicone sheets are the perfect product for use in fire or direct heat contact applications. This product offers unbeatable self-extinguishing properties. At a 3mm thickness our flame retardant silicone sheeting meets UL94V0 flammability standards. It also conforms to BS6853, Cal 1A, TS EN 45 545-2 as well as LUL 1-085 safety standards.

Material 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

Technical Specification



Properties	Test Method	Values
Hardness (Shore A)	ASTM D2240	73° ±5
Tensile Strength	ISO 37 type 1	10.2 MPa
Elongation at Break	ASTM D412 die C	320%
Compression Set (24h, 175°C)	BS 903 pt A6 type B	20%
Compression Set (22h, 350°F)	ASTM D395 method B type 2	20%
Working Temperature Range	-	-60°C to + 230°C
Brittle Point	ASTM D746	-80°C (-112°F)
Limiting Oxygen Index	ASTM D2863	43.1%
Thermal Conductivity	VDE 0304	0.24 W.m ⁻¹ .K ⁻¹
Radiation Resistance	-	>10 ⁵ Grays (10 ⁷ Rads) typical
Dielectric Strength	VDE 0303	23 kV.mm ⁻¹
Dielectric Constant	IEC 60250	3.0
Dissipation Factor	IEC 60250	3x10 ⁻³
Volume Resistivity	IEC 60250	8x10 ¹⁵ Ω.cm

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.



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Environmental Resistance

Silicone rubber products have excellent resistance to:

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

Availability Format

- Supplied in continuous roll lengths
- Widths of 1000mm as standard
- Pressure sensitive adhesive backed if required
- Available in punched and water jet cut gaskets
- Full range of standard colours (grey colour as standard)
- Available in strips and fabricated articles

Typical Applications

- Mass transit
- Automotive
- Electronics
- Construction
- Aerospace
- Insulations
- Lighting and marine



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