

J-FLEX MATERIAL DATA SHEET

J-FLEX 'HTM' THERMALLY CONDUCTIVE SILICONE SPONGE

J-Flex 'HTM' Thermally Conductive Silicone Sponge is ideal for gaskets and pads, where compressibility and good heat transfer is required.

Thermal conductivity is provided by the addition of fillers, such as ceramic or boron nitride particles, to premium grade expanded closed cell silicone sponge.

Properties		
Compound Ref:	JF/ HTM/ Sponge	Norm
Density	0.4 / 0.45 gr/cm ³	DIN 53479
Tensile	3.5 Mpa	DIN 53504
Elongation @ Break	250%	DIN 53504
Temperature Range	-40° to +200°C Continuous	
Colour	Light Green	
Thermal Conductivity	Mean average after test = 0.0695W / (m.k.)	

The material was tested in accordance with BS874: Appendix C : 1973, by the heatflow meter method and expressed in 'SI' units. Tests carried out @ 123° C (mean temperature).

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J-FLEX

Engineering Rubber Components & Specialised Sheeting Products

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Size Format : From 3mm to 40mm thickness.

In sheets 1000mm x 1000mm square, although some special sheet sizes can be supplied - please ask.

Available with smooth or fabric impression surface finish.

Available with or without our high temperature adhesive backing.

Die cut pieces + heat transfer pads can be supplied to order.

Uses

- Used to cool heat generating electronic components by transferring heat to heat sinks and metal housings for dissipation.
- Used to deliver heat for heat sealing and hot stamping applications used in the packaging of food products and drugs.
- Used to heat seal small plastic containers - the base silicone rubber compound resists sticking to melted plastics and most hot melt adhesives, providing a release surface.

Silicone Rubber

J-Flex premium grade Silicone Rubber has a number of outstanding features unavailable in any other elastomer.

Features such as :-

- ◆ heat resistant to dry heat up to approx. +200°C; up to +315°C with special additives.
- ◆ resistant to ageing.
- ◆ resistant to weathering, irrespective of colour formulation.
- ◆ resistant to ozone and ultra-violet light.
- ◆ physiologically inert.