

Silicone Sponge

The thermal stability of silicone rubber is probably its most important asset. Components made from these rubbers are affected only to a small extent by extremes of temperature, ranging from -90°C to $+250^{\circ}\text{C}$ (depending on grade). Even at temperatures as high as $+300^{\circ}\text{C}$ Silicone rubber will operate for limited periods.

Silicone rubber is an excellent electrical insulating material. Resistance to arcing corona, ultra-violet light and ozone is good. It decomposes at 400°C to 500°C leaving an inert, non-flammable and electrically non-conductive residue.

It is made of a fine cellular construction composed mainly of non-interconnecting cells and are normally of an off-white colour. For continuous use it will stand temperatures between -60°C and -200°C

Physical Properties

Compression Stress @ 40%	90±20	BS4443 Part 1 Method 5B
Compression Set - 150°C for 70 hours, recovery period 48 hours 25% compressions	6%	BS4443 Part 1 Method 6A

Resistance to heat ageing (after 168 hours at 150°C)

Compression Stress at 40% Kpa	90±	BS4443 Part 1 Method 5B
Compression Set - 150°C for 70 hours, recovery period 48 hours 25% compression	5%	BS4443 Part 1 Method 6A

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P & P Technology Ltd
1 Finch Drive, Springwood
Braintree, Essex, CM7 2SF, UK
Tel: +44 (0) 1376 550525 Fax: +44 (0) 01376 552389
Email: info@p-p-t.co.uk Web: www.p-p-t.co.uk

