

VGD10-33

General Purpose Silicone Sponge

Material

VGD10-33 is our range of expanded silicone sponge with a closed cell structure and smooth outer skin. Our profiles & extrusions offer excellent **thermal resistance from -50°C to +250°C**, resistance to UV, Ozone and weathering and an excellent **compression set <15% typical**. Particularly suited to demanding temperature applications that require a so1 compressible material and commonly used on a variety of applications across many industries.

Products

Available as sections, cord, tubes and bespoke profiles. Supplied as lengths, O-rings, gaskets. Self-adhesive & fabric finish optional.

Sizes

From our standard range we manufacture sizes from 2.0mm to >100mm and our expertise allows us to manufacture practically any profile. Most sizes can be produced up to the tightest ISO 3302 E1 tolerances upon request with **E3 tolerances promised as standard**.

Applications

Sealing, gaskets, O-rings, extreme temperatures, vibration dampening, thermal insulation, industrial rollers, paper making, flexibility, weather resistance, noise reduction and more. Silicone sponge's flexibility makes it succeed where many solid profiles might fail and a great compression set means a longer lifespan, decreasing the need for maintenance.

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose. This also applies where proprietary rights are involved. Our advice does not release you from the obligations to check its validity and to test our products as to their suitability for their intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. The information contained within this data sheet is subject to change without notice.

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Material Properties

Property	VGD10 (soft)	VGD16 (medium)	VGD24 (firm)	VGD33 (extra firm)	Test
Density (lbs/ft ³)	10 (±4)	16 (±4)	24(±4)	33 (±4)	BS EN ISO 845
Density (Kg/m ³)	160 (±65)	255 (±65)	390 (±65)	530 (±65)	
Hardness* Shore OO	35 (±5)	47 (±5)	68 (±5)	83 (±5)	ASTM D2240
Hardness* Shore A	<5	6 (±3)	18 (±4)	32 (±10)	
Elongation at break (%)	200	215	225	245	BS ISO 37
Compression set** (%)					EN ISO 1856
50% compression 22hrs @ 70°C)	15	15	15	15	
Compression Deflection					
25% typical kPa	25	50	75	100	
Tensile strength (MPa)	0.5	0.65	1.05	1.6	BS ISO 37
Temperature (min) (°C)	-50	-50	-50	-50	
Temperature (max) (°C)					
Continuous	200	200	200	225	
Intermittent	200	200	225	250	
Toxicity	14	14	14	14	NE713 Iss. 03
Smoke Index	46	46	46	46	NES711 Iss. 02

*Shore A data is provided as an approximate comparison to solid rubbers only, due to testing limitations it is not possible to accurately record Shore A hardness for silicone sponge.

**Compression set & density will vary depending on product size and thickness.

Please note our information is based on lab tested samples of 25mm square.

These figures are only intended as a guide and should not be used in preparing specifications.

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