

## FDA Compliant Silicone Sponge - extruded

A medium density closed cell Silicone Sponge, particularly suited to the food and beverage industries, where a soft compressible gasket material with excellent thermal stability is required. Independently tested, it complies with FDA extraction requirements for aqueous and fatty food, as required under CFR 21 177.2600. Goods intended for repeated use - see test results. No Phthalates or Bisphenol A are used in the manufacture of the compound.

### Features:

- Low compression set
- Excellent resistance to weathering
- Resistance to U.V. and ozone
- Good thermal insulator
- Closed cell
- Ideal for sealing applications.
- Wide temperature range
- Available in various colours (white as standard)
- Available as sections, strips, cord, bespoke profiles, tubes, O-rings
- Strips can be adhesive backed

DATA	VALUE	TEST
Appearance	Various Colours	-
Density	300kg/m <sup>3</sup> (±50)	ASTM D1056
Compression force deflection @ 25% strain	50 kPa	ASTM D1056
Compression set @ 70°C for 22hrs	15%	ASTM D1056
Temperature Range	-50°C min - +200°C	-



### Global Migration Tests

FDA - 21 CFR 177.2600 sections e and f

#### Part e - aqueous foods: Distilled Water under reflux

SIMULANT	TIME	TEMPERATURE	RESULT	LIMIT
Distilled Water	7 hours	Boiling Reflux	0.3 mg/in <sup>2</sup>	20 mg/in <sup>2</sup>
Distilled Water	2 hours	Boiling Reflux	0.1 mg/in <sup>2</sup>	1 mg/in <sup>2</sup>

#### Part f - fatty foods: n-hexane under reflux

SIMULANT	TIME	TEMPERATURE	RESULT	LIMIT
n-hexane	7 hours	Boiling Reflux	9.1 mg/in <sup>2</sup>	175 mg/in <sup>2</sup>
n-hexane	2 hours	Boiling Reflux	3.6 mg/in <sup>2</sup>	4 mg/in <sup>2</sup>

Estimated uncertainty of weighing measurements: +/-0.3mg

FDA extraction testing carried out by Rubber Consultants Ltd  
- Certificate of Analysis Ref: RC22447

### Dimensional Tolerances:

THICKNESS (mm)	E3
0 - 1.5	0.4
1.5 - 2.5	0.5
2.5 - 4.0	0.7
4 - 6.3	0.8
6.3 - 10	1.0
10 - 16	1.3
16 - 25	1.6
25 - 40	2.0
40 - 63	2.5
63 - 70	3.2
70 - 80	3.2
80 - 100	3.5

**Dimensional Tolerances:** are typically class 3 as standard, unless otherwise stated. Class 2 and Class 1 tolerances on request, in most instances.

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