



Silicone Sponge - FDA

Grades: SIL15 FDA

Temperature Range: -55°C to 200°C.

Features:

- Platinum cured
- Non-toxic blowing agent
- No unpleasant odour
- Uniform and stable small cell distribution
- Easily pigmentable
- Food grade

Applications:

The inherent flexibility of the product coupled with its excellent properties means that it can be used in a range of applications across wide market offerings such as:

- High and low temperature gaskets and seals
- Thermal insulation for both hot and cold applications
- Weather seals in external environments
- Food sensitive/food processing

Availability:

SIL 15 FDA is produced in white as standard but other colours are also available
As with all of our other current products, adhesive backing is available
Gaskets and joined rings can also be provided in FDA grade to your requirements.

General Characteristics:

Test	Test Method	Result
Density (Imperial)	ASTM D792	23.1lbs/ft ³
Density (Metric)	ASTM D792	370kg/m ³
Resilience (%)	ASTM D2632	52
Specific Gravity	ASTM D792	0.37
Compression set 22hrs at 150°C (%)	ASTM D395	
25% deflection, 0.5 hr rest		16.24
50% deflection, 24 hrs rest		13.1
Compression set 22hrs at 100°C (%)	ASTM D395	
50% deflection, 24 hrs rest		5.56
Compression deflection 25%, psi (kPa)	ASTM D1056	4 (27.6)
Compression deflection 50%, psi (kPa)	ASTM D1056	13 (89.6)
Low temperature brittleness, 3 minutes at -55°C	ASTM D746	No cracks

Properties obtained on 25.4mm round extruded profiles, hot air vulcanized (HAV) 10 minutes at 240°C (482°F). Post-cured for 4 hours at 200°C (392°F).

General Information:

The cellular profiles are generally used in static applications such as gaskets. Material should not be compressed by more than 50% of its original thickness, as the cells may break under such compression. The maximum compression recommended is 30% of initial thickness.

FDA Information:

United States FDA Regulations:

21 CFR Section 175.300: "Resinous and polymeric coatings".

21 CFR Section 177.2600: "Rubber articles intended for repeated use".

European Union Food Regulations:

This product can be used in compliance with German BfR Recommendation XV on Silicone for food contact (BfR-Empfehlungen XV zu Silicone).

This information and our technical advice, whether verbal, in writing or by way of trials, is given in good faith but without warranty.

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 the intended use. The storage, application and use of our products are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale.

The information contained within this data sheet is subject to change without notice.

Silex Silicones Ltd

Unit 4-5 Broxhead Trading Estate, Lindford, Bordon, GU35 0JX

Tel: +44 1420 487130 Fax: +44 1420 489274 Email: info@silex.co.uk

www.silex.co.uk

Registered Company NO: 1951973 Place of Registration: England & Wales

VAT No: 432349855