

# SILEX<sup>®</sup>

## SILICONES



Certificate No. 0372

Unit 4 & 5, Broxhead Trad Est, Lindford, Bordon, Hants, GU35 ONY

Tel: + 44 (0) 1420 487130, 488042, 487538

Fax: + 44 (0) 1420 489274

e-mail: [info@silex.co.uk](mailto:info@silex.co.uk) web site: [www.silex.co.uk](http://www.silex.co.uk)

## SIL 20 FDA PRODUCT DATA SHEET

A closed cell Silicone sponge material available in sheet, cord or extruded format produced with FDA approved ingredients.

This product is particularly suited to the food and pharmaceutical industries that require a soft, compressible material with excellent thermal stability from -50°C up to +200°C.

### Features

Silicone sponge has the following properties:

- **Low compression set**
- **Excellent resistance to weathering**
- **Resistance to UV and ozone**
- **Good thermal insulator**
- **Closed cell structure and sealed outer skin, suitable for air/water sealing applications**
- **Platinum Cured**
- **Excellent 'white' colour (can be pigmented in other colours)**
- **Mainly closed cell**
- **Smooth skin**
- **US FDA 21CFR 177.2600 compliant**
- **EC1935/2004 compliant**
- **BfR recommendation XV complaint**

### 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**

### Options

SIL 20 FDA is produced in white as standard

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.

## Typical Properties

Properties	SIL 20 FDA
Density (Imperial)	24lbs/ft <sup>3</sup> (+/-4)
Density (Metric)	400Kg/m <sup>3</sup>
Elongation at break (%)	215
Compression set (%)	15
Tensile strength (Mpa) 10mm thick	0.85
Tensile strength (Newtons) 10mm thick sample	85
Temperature (max °c)	
Continuous	200
Intermittent	200
Temperature (min °c)	-40
Toxicity NES 713 iss.3	14
Smoke index NES 711 iss.2	46
Burn rate BS4736 : 1974	0.03mm/s
Thermal Conductivity (W/m.K)	0.0695W/m.K

## Tolerance Data Cord & Extrusions

SIZE (mm)	Tolerance (mm)	Tolerance (Micrometer)
1 to 1.5	±0.25	±0.010
1.5 to 2.5	±0.35	±0.014
2.5 to 4	±0.40	±0.015
4	±0.50	±0.020
5	±0.50	±0.020
6	±0.50	±0.020
8	±0.70	±0.028
10	±0.80	±0.032
12	±0.80	±0.020
15	±0.80	±0.020
20	±1.00	±0.040
25	±2.00	±0.079
30	±2.50	±0.098
40	±3.00	±0.118
50	±3.00	±0.118
60	±4.00	±0.157
70	±5.00	±0.197
75	±5.00	±0.197
80 to 100	±5.00	±0.197

Please note that our information is based on lab test samples.

Technical data is provided without warranty.

End users should check to ensure our products are suitable for their intended use.