

SILEX

SILICONES



Certificate No. 0372

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SIL 20 FDA PRODUCT DATA SHEET

A closed cell Silicone sponge material available in sheet, cord or extrusion form 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**

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 fabric finish and adhesive backing are available.

Gaskets and joined rings can also be provided in FDA grade to your requirements.

Typical Properties

| Properties | SIL 20 FDA |
|--|------------------------------|
| Density (Imperial) | 20lbs/ft ² (+/-4) |
| Density (Metric) | 325Kg/m ² |
| 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) | -50 |
| Toxicity NES 713 Iss.3 | 14 |
| Smoke index NES 711 Iss.2 | 46 |
| Burn rate BS4735 : 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 3 | ±0.25 | ±0.010 |
| 4 | ±0.30 | ±0.012 |
| 5 | ±0.30 | ±0.012 |
| 6 | ±0.30 | ±0.012 |
| 8 | ±0.40 | ±0.016 |
| 10 | ±0.40 | ±0.016 |
| 12 | ±0.50 | ±0.020 |
| 15 | ±0.50 | ±0.020 |
| 20 | ±0.75 | ±0.030 |
| 25 | ±0.75 | ±0.030 |
| 30 | ±1.00 | ±0.040 |
| 40 | ±1.00 | ±0.040 |
| 50 | ±1.25 | ±0.050 |
| 60 | ±1.25 | ±0.050 |
| 70 | ±1.25 | ±0.050 |
| 75 | ±2.00 | ±0.080 |
| 80 to 100 | ±3.00 | ±0.120 |

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.