

# Technical Data Sheet

Silicone Rubber Sponge FDA-Compliant



## Material

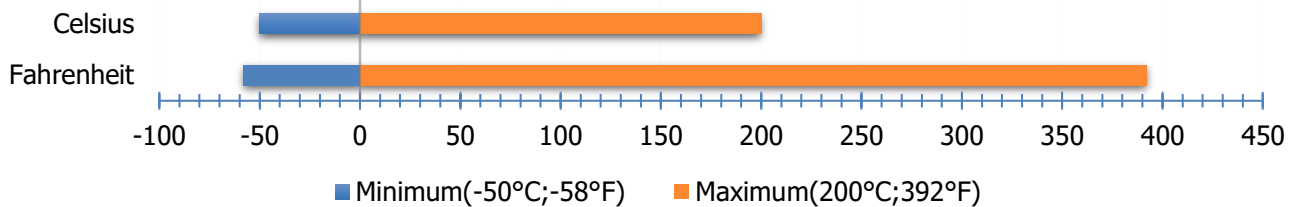
Closed cell Silicone Sponge



## Available Grades

SIL20E FDA

## Temperature Range



## General Information

Our SIL20E FDA range is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177.2600. and is also BfR XVI approved.

EU1935/2004 compliant.

The sponge is closed cell with low water absorption and dust ingress protection up to IP65.

## Environmental Resistance

Silicone rubber products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet light
- Corona discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

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 their 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. Issue date 01.01.2019.

**SILEX LTD**

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# Technical Data Sheet

Silicone Rubber Sponge General Purpose Grade



## Availability Format

- Extruded only, for Sheetting see SIL20FDA
- Cord, section, strip, profiles
  - Pressure sensitive adhesive backing
  - Joined rings and gaskets

## Typical Applications

- Food sensitive and Food Processing
- Medical and Pharmaceutical
- Electronics
- Heating and Ventilation (HVAC)
- Insulations
- High and Low temperature gaskets and seals

## Mechanical Properties

Extrusions		SIL20E	
Property	Units	Typical Value	Test Method
Density *	kg.m <sup>3</sup> lb.ft <sup>3</sup>	400 24.9	ASTM D1056
Resilience	%	52	ASTM D2632
Compression deflection 25%	kPa PSI	50 7.25	ASTM D1056
Compression deflection 40%	kPa PSI	120 17.4	BSENISO 3386 part 1,2
Compression set, 22 hours at 100°C	%set	<1%	ASTM D1056
Compression Set, 22 hours at 200°C	%set	10%	ASTM D1056

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## General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	6.1x10 <sup>-2</sup> W.m <sup>-1</sup> .K <sup>-1</sup>	BS 874 Part 2
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	

## Accreditations

- American Food and Drugs Administration (FDA) 21 § 177.2600
- BFR Compliant
- EU 1935/2004 compliant

## Additional Information

- Platinum cured
- Smooth and dry surface
- Well finished edges

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