

Technical Data Sheet

Silicone Rubber Sponge FDA-Compliant



Material

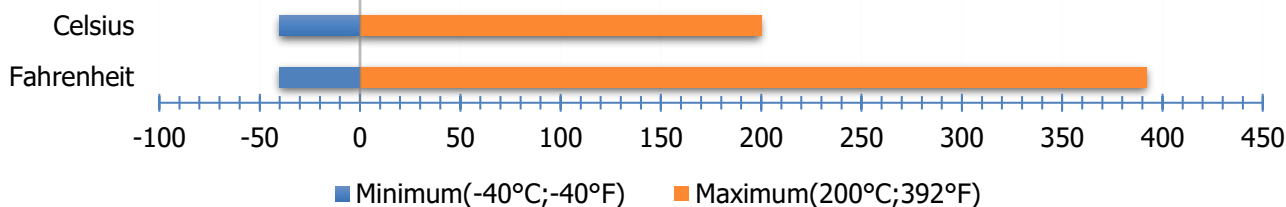
Mainly closed cell Silicone Sponge



Available Grades

SIL15 FDA

Temperature Range



General Information

Our SIL15 FDA range is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177.2600 & it is as well compliant to German BfR Recommendation XV on silicone Food Contact.

EU1935/2004 compliant.

Can be formulated to meet AMS and ASTM sponge specifications.

The sponge is predominantly 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 SILICONES LTD

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Technical Data Sheet

Silicone Rubber Sponge General Purpose Grade



Availability Format

Extruded only, for Sheeting see SIL20FDA

- Cord, section, strip, profiles
- Pressure sensitive adhesive backing
- Joined rings and gaskets

Typical Applications

- Automotive
- Electronics
- Energy
- Construction
- Heating and Ventilation (HVAC)
- Industrial
- Insulations
- Lighting and Marine
- High and Low temperature gaskets and seals
- Food sensitive and Food Processing
- Medical and Pharmaceutical

Mechanical Properties

Extrusions		SIL15	
Property	Units	Typical Value	Test Method
Density *	kg.m ³ lb.ft ³	370 23.1	ASTM D792
Resilience	%	52	ASTM D2632
Compression deflection 25%	kPa PSI	27,6 4	ASTM D1056
Compression deflection 50%	kPa PSI	89,6 13	ASTM D1056
Compression set, 22 hours at 150°C 25% deflection, 0,5 hour rest 50% deflection, 24 hour rest	%set %set	16.24 13.1	ASTM D395
Compression Set, 22 hours at 100°C 50% deflection, 24 hours rest	%set	5.56	ASTM D395

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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 ⁻² W.m ⁻¹ .K ⁻¹	BS 874 Part 2
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	

Accreditations

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

Additional Information

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

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