

Technical Data Sheet

Silicone Rubber Sponge SIL20FDA Compliant



Material

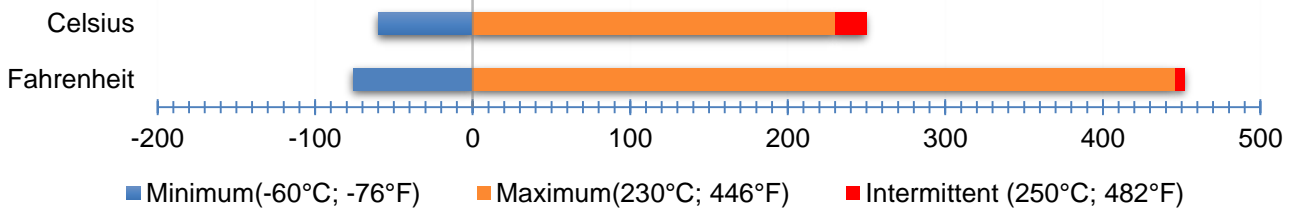
Mainly closed cell Silicone Sponge



Available Grades

SIL20 FDA

Temperature Range



General Information

Our SIL20 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 and therefore EU1935/2004 compliant.

The sponge is predominately 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

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SILEX SILICONES LTD

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Availability Format

SHEETING

- Supplied in rolls or individual sheets
- Widths up to 1000mm
- Pressure sensitive adhesive backing
- Punched/Water jet gaskets
- White colour
- Slit strips
- Fabricated articles

Typical Applications

- Food sensitive and Food Processing
- Medical pharmaceutical

Mechanical Properties

Sheets		SIL20	
Property	Units	Typical Value	Test Method
Density *	kg.m ³ lb.ft ³	420 26	BSENISO 845 ASTM D3574
Hardness **	Shore OO Shore A	60 ±5 15	ASTM D2240
Compression Stress 40% Strain ***	kPa PSI	90 13	BSENISO 3386 Part 1,2
Compression Stress 25% Strain ***	kPa PSI	55 8	ASTM D1056
Tensile Strength	MPa PSI	0.9 131	BSENISO 1798 ASTM D412
Elongation to failure	%	590	BSENISO 1798 ASTM D412
Compression Set 50% Compression 24hrs Recovery, 22 hrs 70°C (158°F)	%	3.5	BSENISO 1856
Compression Set 50% Compression 24hrs Recovery, 22 hrs 100°C (212°F)	%	4.0	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	6.4x10 ⁻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 CFR 177-2600
- Directive EC 1935/2004

Additional Information

- Platinum cured
- Smooth and dry surface

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