

Technical Data Sheet

Silicone Rubber Sponge General Purpose Grade



Material

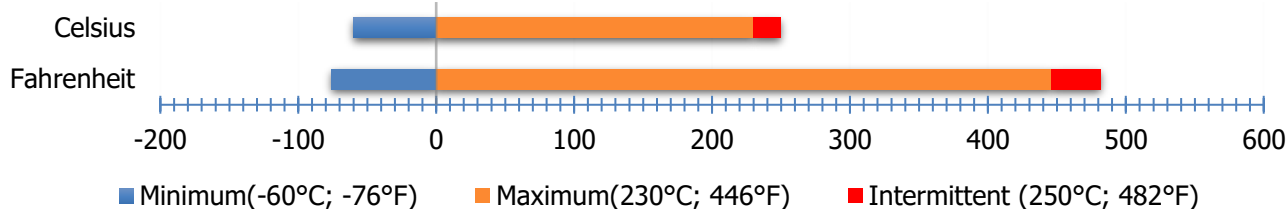
Closed Cell Silicone Sponge



Available Grades

SIL10, SIL16, SIL20, SIL24,
SIL33

Temperature Range



General Information

The density range in white has been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F). The listing number is 1810553.

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive Standard PART 571FMVSS302

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

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 LTD

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E-Mail: sales@silex.co.uk, Website: www.silex.co.uk, Registered company number: 1951973. Place of registration: England & Wales.

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Availability Format

EXTRUSIONS

- Cord, section, strip, profiles
- Joined rings and gaskets
- Pressure sensity adhesive backing
- Full range of standard colours
- Capability to colour match

Typical Applications

- | | |
|----------------|----------------------------------|
| • Automotive | • Heating and Ventilation (HVAC) |
| • Electronics | • Industrial |
| • Energy | • Insulations |
| • Construction | • Lighting and Marine |

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Mechanical Properties

Extrusions		SIL10	SIL16	SIL20	SIL24	SIL27	SIL33	
Property	Units	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Test Method
Density *	kg.m ³ lb.ft ³	200 12.5	250 15.5	300 19	400 25	450 28	530 33	BSENISO 845 ASTM D3574
Hardness **	Shore OO Shore A	35 ±5 <5	42 ±5 5	55 ±5 15	65 ±5 17	70 ±5 24	80 ±5 30	ASTM D2240
Compression Stress 40% Strain ***	kPa PSI	50 7.3	90 13	120 17.4	165 24	230 34	470 68	BSENISO 3386 Part 1,2
Compression Stress 25% strain	kPa PSI	28 4	38 5.5	52 7.5	83 12	105 15	214 31	ASTM D1056
Tensile Strenght	MPa PSI	0.6 87	0.6 87	0.75 108	0.75 108	1.5 217	2.0 290	BSENISO 1798 ASTM D412
Elongation to failure	%	140	145	120	120	130	130	BSENISO 1798 ASTM D412
Compression Set 50% Compression 24hrs Recovery, 22 hrs 70°C (158°F)	%	5.0	3.8	3.6	3.0	3.0	3.0	BSENISO 1856
Compression Set 50% Compression 24hrs Recovery, 22 hrs 70°C (158°F)	%	6.7	4.8	4.4	4.3	4.3	6.0	BSENISO 1856

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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

- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)(a)(1)(v) horizontal flammability test
- UL94 HB
- Automotive Standard PART 571FMVSS302
- REACH compliant and ROSH compliant

Additional Information

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