

SILEX[®]

SILICONES[®]



Certificate No. 0372

Silicone Rubber Sponge Sheet Metal Detectable

Grades Metal Detectable Sponge

Temperature Range -60°C to 230°C (-76°F to 446°F) and up to 250°C (482°F) intermittent

Specifications

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 to IP65.

Availability

Sheeting, gaskets, extrusions and tubing.
Sheeting supplied in Rolls and individual sheets of 1 metre x 2 metres.
Widths up to 1000mm.
Pressure sensitive adhesive backing.
Punched/Water Jet gaskets.
Cord, section, strip and profiles.
Joined rings and gaskets.

General Characteristics

Test	Result	Standard
Brittle Point	-80°C (112°F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	$6.4 \times 10^{-2} \text{ W.m}^{-1}.\text{K}^{-1}$	BS 874 Part 2
Radiation Resistance	$>10^5$ Grays (10^7 Rads) typical	

Typical Applications

Commercial, Catering, Food & Beverage.

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SILEX Limited

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Registered in England No. 1951973. Registered at the above address.

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Mechanical Properties

Metal Detectable Sponge

Property	Units	Spec Limits	Typical Value	Test Method
*Density	kg.m ⁻³	300 ± 40	315	BSENISO 845
	Lb.ft ⁻³	18.7 ± 2.5	19.7	
**Hardness	Shore OO	-	50	ASTM D2240
	Shore A	-	12.0	
***Compression Stress 40% strain	kPa	90 ± 40	112.1	BSENISO 3386 part 1, 2
	psi	13 ± 5.8	16.3	
Tensile Strength	MP1	0.8 min	1.47	BSENISO 1798
	Psi	116	213	
Elongation to Failure	%	150 min	214	BSENISO 1798
Compression Set 50% compression 24 hours recovery 22 hours @ 70°C (158°F)	%	15 max	5	BSENISO 1856
22 hours @ 100°C (212°F)	%	15 max	6	BSENISO 1856
Magnetic Pull	mm	5 min	5.7	

Extra Information

*Density measured on 25mm diameter cord sample. The density of samples of different sizes will be different from that stated here. **Hardness measured on 8mm thick samples. At less than 10mm the measured hardness will increase with density. Shore A values are provided as a guideline for comparison to solid materials and as such as not designed for use in specifications. ***Compression Stress measured on samples as defined in BSENISO 3386. The compressive stress on samples of different dimensions, especially thickness may vary from that quoted here. For further information about physical properties for other sample sizes, please contact the technical department.

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