

SILEX

SILICONES



Certificate No. 0372

Silicone Rubber Solid Sheet Metal Detectable - Standard

Grades Metal Detectable – 60° shore

Temperature Range -60°C to 200°C (-76°F to 392°F) and up to 250°C (482°F) intermittent

Specifications

This material has been tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 & Directive EC 1935/2004.

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 tests and Automotive Standard PART 571FMVSS302.

Environment Resistance

Silicone Rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionizing radiation and weathering in general.

Availability

Sheeting supplied in continuous roll lengths
Standard widths of 1200mm
Pressure sensitive adhesive backing
Punched/Water Jet gaskets
Extruded profiles and tubing
Fabricated seals 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	0.24 W.m ⁻¹ .K ⁻¹	VDE0304
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	
Dialectric strength	23 kV.mm ⁻¹	VDE0303
Dialectric constant	2.9	VDE0303
Dissipation factor	3x10 ⁻⁴	VDE0303
Volume resistivity	3x10 ¹⁵ Ω.cm	VDE0303

Typical Applications

Commercial Catering, Food & Beverage.

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SILEX Limited

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Silicone Rubber Solid Sheet **Metal Detectable – 60° shore A**

Mechanical Properties

Property	Units	Standard Typical Value	Extra Power Typical Value	Extra Strength Typical value	Test Method
Hardness	Shore A	63	63	61	ASTM D2240 DIN ISO 7619-1
Tensile Strength	MPa psi	8.0 1160	8.5 1235	7.5 1090	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	%	370	290	290	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm lb./in.	21 120	22 125.0	21 120	ASTM D624 die B
Compression Set 24 Hours @ 150°	%	11	14	13	BS 903 pt A6 type B DIN/ISO 815 type B
Compression set 22 hours @ 300°F	%	11	14	13	ASTM D395 method B type 2
Magnetic Pull	mm	7.3	8.3	11.3	SEWI 700

Extra Information

In-house capabilities for extensive industry specific testing available on request.

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