

Silicone Rubber Sheeting - Metal Detectable - 815

Document Number: HSE - 7136

Date Of Issue: 28/08/2018

Revision Number: 2

Date of Revision: 13/02/23



Product Code	Product Description
815-S148-P01	Silicone Rubber Sheet 2000x1000x1.5mm 1.8kg/m Blue
815-S149-P01	Silicone Rubber Sheet 2000x1000x2mm 2.4kg/m Blue
815-S150-P01	Silicone Rubber Sheet 2000x1000x3mm 3.6kg/m Blue
815-S151-P01	Silicone Rubber Sheet 2000x1000x4mm 4.8kg/m Blue
815-S152-P01	Silicone Rubber Sheet 2000x1000x6mm 7.2kg/m Blue

Available Grades

60° Shore A, 1mtr wide in a full range of thicknesses in standard grade (others available)

Temperature Range

Minimum (-60°C; -76°F)

Maximum (230°C; 446°F)

Intermittent (250°C; 482°F)

General Information

Our metal detectable sheeting range has been tested to and is in compliance with the American Food and Drugs Administration (FDA) 21 CFR 177-2600 & Directive EU 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 571MVSS302.

Environmental Resistance

Silicone rubber products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet light
- Corona discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

Accreditations

- FDA
- FAR 25/JAR 25/CS 25 Appendix F, Part 1 (a)(1)(iv) and (a)(1)(v) horizontal flammability test
- Automotive Standard PART 571MVSS302
- EU 1935/2004 compliant
- REACH compliant and RoHS compliant

		Standard	Extra Power	Extra Strength	
Property	Units	Typical Value	Typical Value	Typical Value	Test Method
Hardness Shore A5	Shore A ±5	63	63	61	ASTM D2240 DIN ISO 7619-1
Tensile Strength	Mpa (PSI)	8.0 (1160)	8.5 (1235)	7.5 (1090)	SO 37 type 1 ASTM D412 die C
					DIN 53504 type S1

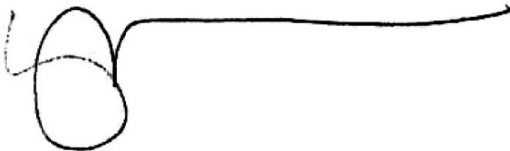
Elongation to Failure	%	370	290	290	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	N/mm (lb./in.)	21 (120)	22 (125)	21 (120)	ASTM D624 die B
Compression set 24 hrs @ 150°C	%	11	14	13	BS 903 pt A6 type B DIN/ISO 815 type B
Compression set 22 hrs @ 300°C	%	11	14	13	ASTM D395 method B type 2
Magnetic Pull	mm	7.3	8.3	11.3	SEWI 700

Mechanical Properties

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	VDE 0304
Radiation Resistance	10 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm ⁻¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

No warranty is given or implied with respect to this information or patent infringement. Detectamet Ltd do not accept liability for loss or damage arising from the use of this information. Results are based on a test sample, our general experience and information from our suppliers. Data and results must be confirmed by the buyer by testing for its intended conditions of use.



Helen Morrison
Group Managing Director

