

FDA Compliant Metal Detectable Silicone Sheeting

J-Flex Metal Detectable Silicone Rubber contains special additives that are visible to metal detector scanning equipment; so that any rubber contamination in the product can be easily identified.

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.

Contains only ingredients that are listed by the American Food & Drugs Administration (FDA) under the 21 CFR number 177-2600. Tested in accordance with UNE-EN 1186 "Materials and articles in contact with foodstuffs - Plastics" - Part 3 (aqueous food stimulant) & Part 14 (fatty food stimulant).

Typical Applications:

Metal detectable seals, gaskets, joints & strips used in sensitive food, drink & pharmaceutical applications.

Availability:

- Supplied in rolls 1.2m wide x 10m.
- Thicknesses: 1.0mm / 1.5mm / 2.0mm / 3.0mm / 4.0mm / 5.0mm / 6.0mm

PROPERTY	TYPICAL	TEST METHOD
Colour	Blue (nearest Pantone 2955U)	
Hardness	60° Shore A ($\pm 5^\circ$)	ASTM D2240 DIN ISO 7619-1
Tensile Strength	8.0 MPa 1160 psi	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Elongation to Failure	370%	ISO 37 type 1 ASTM D412 die C DIN 53504 type S1
Tear Strength	21 N/mm	ASTM D624 die B
Compression Set (25% for 24hrs @ 150°C)	11%	BS903 pt A6 type B DIN/ISO 815 type B
Metal Detectable Properties	The material has been independently tested to an industry norm and confirms a median test value of 11.25 / 9.34mm.	
Temperature Range	-60°C to 200°C (and up to 250°C intermittent)	



Dimensional Tolerances: are typically class 3 as standard, unless otherwise stated. Class 2 and Class 1 tolerances on request, in most instances.

Disclaimer: All recommendations and information contained in this specification sheet are to the best of our knowledge correct. Since conditions of service are beyond our control, users must satisfy themselves that the products are suitable for intended use. No warranty is given or implied in respect of information or recommendations or that any use of products will infringe rights belonging to other parties. In any event or occurrence our liability is limited to the invoice value of our goods delivered to you. We reserve the right to change product design and properties without notice.

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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

Dimensional Tolerances:

THICKNESS (mm)	Class 2
0 - 1.0	±0.2
>1.0 - 1.6	±0.25
>1.6 - 2.5	±0.35
>2.5 - 4.0	±0.4
>4.0 - 6.3	±0.5
>6.3 - 10	±0.7
>10 - 16	±0.8
>16 -	5%

Above table applies to Sheeting.

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