



Adhesive Backed Materials Ltd

ABM, Geith Ind Est, Crown Business Park, Tredegar, Gwent, UK. NP22 4EF
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Silicone Foam Grade 16

Technical Data Sheet

General Information

Material: Closed Cell Silicone Sponge

Temperature Range: Minimum -60°C (-76°F) | Maximum 230°C (446°F) | Intermittent 250°C (482°F)

The material should not be compressed by more than 50% of its original thickness, as the cells may break under such compression. The maximum compression recommended is 30% of initial thickness. Sealing with less than 30% compression helps reduce compression set and promotes product longevity.

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).

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 571 FMVSS302.

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

Availability Format

Sheeting

- Supplied in rolls or individual sheets
- Widths up to 1000mm
- Pressure sensitive adhesive backing
- Die-Cut/CNC Cut-gaskets

Typical Applications

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



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Accreditations

- FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv)(a)(1)(v) horizontal flammability test
- If tested would meet UL94HB
- Automotive Standard PART 571 FMVSS 302
- REACH compliant and ROHS compliant
- Capable of meeting ASTM D1056 2A2; ASTM 6576 Grades B & C

General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2782 Part 1
Thermal Conductivity	0.070 W.m ⁻¹ .K ⁻¹	BS 874 Part 2
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	

Mechanical Properties

Property	Units	Typical Value	Test Method
Density	kg/m ³ / lb/ft ³	250 / 15.5	BSENISO 845 / ASTM D3574
Hardness	Shore OO / Shore A	42 ±5 / 5	ASTM D2240
Compression Stress 40% Strain	kPa / PSI	90 / 13	BSENISO 3386 Part 1,2
Compression Stress 25% Strain	kPa / PSI	38 / 5.5	ASTM D1056
Tensile Strength	MPa / PSI	0.6 / 87	BSENISO 1798 / ASTM D412
Elongation to Failure	%	145	BSENISO 1798 / ASTM D412
Compression Set 50% Compression, 24hrs Recovery 22hrs @ 70°C (158°F)	%	3.8	BSENISO 1856
Compression Set 50% Compression, 24hrs Recovery 22hrs @ 70°C (158°F) – Alt.	%	4.8	BSENISO 1856

All information and recommendations about products are based on our existing knowledge and experience but do not mean a guarantee or warranty. As the products are used for different applications we recommend checking suitability of product prior to use. All information is subject to change without notice. End user is obliged to verify the above information before using the material.