



Silicone Foam Single Sided Tape

Single Sided Self-Adhesive Closed Cell Silicone Sponge Tape

General Description

A single-sided self-adhesive foam tape combining Silicone Foam Grade 16, a closed-cell silicone sponge, with the S-4210 VS modified-acrylic high-temperature adhesive system supplied with a release-paper liner. The silicone sponge offers an exceptionally wide service temperature range (-60 °C to +230 °C), outstanding resistance to ozone, UV, weathering and radiation, and certified flammability performance, while the high-temperature acrylic adhesive (rated to +200 °C) provides durable bonding with excellent shear and ageing resistance.

Application & Use

- High-temperature sealing and gasketing in automotive, electronics and energy applications
- HVAC, lighting, industrial and marine sealing and insulation
- Environmental and weather seals requiring ozone, UV and radiation resistance
- Die-cut, Kiss Cut and CNC-cut gaskets
- Construction and general industrial assembly

Technical Details

Property	Method	Unit	Typical Value
Foam Substrate — Silicone Foam Grade 16 (Closed Cell Silicone Sponge)			
Material	—	—	Closed cell silicone sponge
Density	BS EN ISO 845 / ASTM D3574	Kg/m ³	250
Hardness	ASTM D2240	Shore OO	42 ± 5
Compression Stress 25% Strain	ASTM D1056	kPa	38
Compression Stress 40% Strain	BS EN ISO 3386	kPa	90
Tensile Strength	BS EN ISO 1798 / ASTM D412	MPa	0.6
Elongation to Failure	BS EN ISO 1798 / ASTM D412	%	145
Compression Set (50%, 22h @ 70°C)	BS EN ISO 1856	%	3.8
Temperature Range (Constant)	—	°C	-60 / +230
Temperature Range (Intermittent)	—	°C	+250
Brittle Point	ASTM D746	°C	-80
Limiting Oxygen Index	BS 2782 Part 1	%	24.0
Thermal Conductivity	BS 874 Part 2	W/(m·K)	0.070
Radiation Resistance	—	Grays	> 10 ⁵ (typical)



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Property	Method	Unit	Typical Value
ASTM Classification (capable)	ASTM D1056 / D6576	—	2A2; D6576 Grades B & C
Flammability	FMVSS302 / FAR 25	—	Pass
Reaction to Fire (UL94)	UL94	—	HB (if tested)
Environmental Compliance	—	—	REACH & RoHS compliant
Adhesive System — S-4210 VS (Modified Acrylic, High-Temperature)			
Adhesive Type	—	—	Modified polyacrylic, permanent
Carrier	—	—	Nonwoven
Carrier Basis Weight	—	g/m ²	12
Adhesive Coat Weight	—	g/m ²	90
Adhesive Strength	AFERA 5001	N/25mm	Min. 13
Temperature Resistance	ATP AA-B-12-07	°C	-40 / +200
Release Liner	—	—	Release paper, yellow
Liner Basis Weight	—	g/m ²	90
Adhesive Total Thickness (excl. liner)	—	mm	0.10
Combined Product			
Construction	—	—	Single-sided: silicone foam + S-4210 VS acrylic adhesive + release liner
Adhesive Added Thickness (excl. liner)	—	mm	≈ 0.10
Combined Service Temperature (continuous)	—	°C	-40 / +200

Flame rating note: The FAR 25/JAR 25/CS 25, FMVSS302 and UL94 (HB, if tested) ratings apply to the Silicone Foam Grade 16 substrate only. The S-4210 VS acrylic adhesive and release liner are not independently flame-rated, and the flammability of the complete laminated tape has not been classified. Suitability should be verified for any application requiring a specified flame rating.

Key Characteristics

- Wide service temperature range: -60 °C to +230 °C continuous (250 °C intermittent); brittle point -80 °C
- Excellent resistance to ozone, oxidation, UV, weathering, corona discharge and ionising/cosmic radiation
- Meets FAR 25/JAR 25/CS 25 Appendix F horizontal flammability and FMVSS302; would meet UL94 HB if tested
- REACH and RoHS compliant; capable of meeting ASTM D1056 2A2 and ASTM D6576 Grades B & C
- White grade WRAS-approved for contact with potable water up to 85 °C
- Closed-cell with low water absorption; dust/ingress protection up to IP65 (subject to design)
- For best sealing, compress no more than 30% of original thickness (50% maximum)



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Availability

Colour: Black (anthracite) or white.

Foam Thickness: 1mm, 2mm, 3mm, 4mm, 5mm and 6mm.

Width: Supplied 1 metre (1000mm) wide as standard; can be slit to specified widths.

Shelf Life & Storage Conditions

12 months when stored away from direct sunlight and heat, in a dark, dry place at a temperature of 20 °C ± 3 °C with a relative humidity of 50% ± 20%.

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.