



Silicone HT-800 FR Foam Single Sided Tape

Single Sided Self-Adhesive Flame-Retardant Silicone Foam Tape

General Description

A single-sided self-adhesive foam tape combining BISCO HT-800, a medium-firm cellular silicone foam from Rogers Corporation, with the PSA-8441 acrylic tissue adhesive system supplied with a siliconised paper release liner. HT-800 combines the lightness of a foam with the sealing performance of a sponge rubber, offering temperature independency (-55 °C to +200 °C), UV and ozone resistance and certification to stringent flame, smoke and toxicity standards, while the acrylic adhesive provides durable bonding to dry, smooth and slightly curved surfaces.

Application & Use

- High-performance, flame-rated sealing and gasketing in transport, aerospace and electronics
- Environmental and enclosure gaskets requiring UV, ozone and temperature resistance
- HVAC, lighting and industrial sealing
- Cushioning and vibration isolation of components
- Die-cut and CNC-cut gaskets

Technical Details

Property	Method	Unit	Typical Value
Foam Substrate — BISCO HT-800 (Medium-Firm Cellular Silicone Foam)			
Material	—	—	Cellular silicone foam (medium-firm)
Colour	Visual	—	Black, Grey or Red
Density (typical / spec)	Internal	Kg/m ³	352 (300-473)
Compression Force Deflection (25%)	ASTM D1056	kPa	67 (41-97)
Compression Set (100°C / 22h / 50%)	ASTM D1056	%	2.4 (< 10)
Water Absorption	Internal	%	0.5 (< 5)
Temperature Range	Internal	°C	-55 / +200
Thermal Conductivity	ASTM D518	W/(m·K)	0.076
Low Temperature Flex (-55°C)	ASTM D1056	—	Pass
Low Temperature Brittleness (-55°C)	ASTM D746	—	Pass
Flame Resistance	UL 94 (File E83967)	—	V-0 / HF-1
Flame Spread Index	ASTM E162	—	Meets
Smoke Density	ASTM E662	—	Meets
Burn Length	FMVSS 302	mm/min	< 100 (Meets)
Specification	—	—	AMS3195



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Property	Method	Unit	Typical Value
Adhesive System — PSA-8441 (Acrylic Tissue Tape)			
Adhesive Type	—	—	Acrylic, permanent (double-coated tissue)
Carrier	—	g/m ²	Tissue, 13
Adhesive Coat Weight	—	g/m ²	45 per side
Peel Adhesion to Steel (24h dwell)	—	N/m	650
Shear Adhesion to Steel	—	h	50
Service Temperature Range	—	°C	-10 / +180
Recommended Application Temperature	—	°C	+5 / +60
Release Liner	—	g/m ²	Brown siliconised release paper, 80
Total Adhesive Thickness (excl. liner)	—	mm	0.115
Shelf Life	—	months	12
Combined Product			
Construction	—	—	Single-sided: silicone foam + PSA-8441 acrylic adhesive + paper liner
Adhesive Added Thickness (excl. liner)	—	mm	≈ 0.12
Combined Service Temperature (continuous)	—	°C	-10 / +180

Flame rating note: The UL94 V-0/HF-1, FMVSS302, ASTM E162 (flame spread) and ASTM E662 (smoke density) ratings apply to the BISCO HT-800 foam substrate only. The PSA-8441 acrylic adhesive and paper 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

- Temperature independency with a wide service range: foam rated -55 °C to +200 °C
- Rated to stringent flame standards: UL94 V-0 / HF-1, FMVSS302, ASTM E162 and ASTM E662; meets AMS3195
- Excellent UV and ozone resistance for demanding and outdoor environments
- Closed-cell with low water absorption (< 5%) for reliable sealing
- BISCO HT-800 grey grade is FDA compliant (21 CFR 177.2600); PSA-8441 raw materials conform to FDA 175.105 for indirect food contact (a functional barrier and suitability assessment remain the customer's responsibility)

Availability

Colour: Black or grey.

Foam Thickness: 0.8mm, 1.6mm, 2.4mm, 3.2mm, 4.8mm, 6.4mm, 9.5mm and 12.7mm.



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Width: Supplied 900mm 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.