

SS-2000

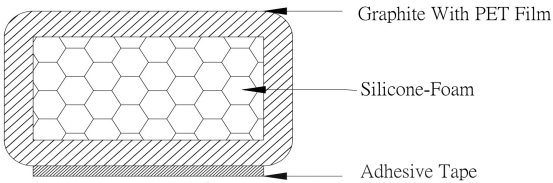
Graphite-over-Foam Thermal Gasket



Product Description

VOT SS-2000 is an innovative thermal gasket that perfectly combines the ultra-high thermal transfer performance of an advanced graphite film with the repeatable compression and rebound capabilities of a silicone foam core. Designed for versatility, it provides a lightweight, highly flexible, and low-force thermal interface solution.

Unlike traditional silicone gap pads, the exterior graphite layer of SS-2000 is highly abrasion-resistant, making it the ideal choice for applications involving sliding connections, repeated insertions, or locations with high mechanical movement. Equipped with a pressure-sensitive adhesive (PSA) backing, SS-2000 is easy to install, highly economical, and widely utilized in thermal designs for notebooks, PCs, and high-end 3C appliances requiring optimal heat dissipation across variable gap sizes without the risk of silicone oil bleed.



FEATURES & BENEFITS

- **Exceptional Thermal Transfer:**
Delivers ultra-high X-Y axis thermal conductivity (1300~1500 W/m·K) to spread heat rapidly, paired with solid Z-axis performance (15~20 W/m·K).
- **High Deflection & Low Force:**
The silicone foam core ensures repeatable compression and rebound cycles, applying minimal stress on sensitive components.
- **Abrasion-Resistant Exterior:**
The robust graphite wrap withstands sliding and friction, ideal for insertion applications.
- **Superior Flexibility:**
Withstands over 10,000 cycles in 180° bending tests without performance degradation.
- **Lightweight Design:**
Significantly reduces overall device weight compared to solid elastomeric thermal pads.
- **Clean & Reliable:**
No silicone oil bleeding, avoiding contamination; complies with RoHS, Halogen-Free, and equivalent UL94 V-0 flammability standards.

PROPERTY	SS-2000	TEST METHOD
Construction	Advanced Graphite with PET Film + Silicone Foam Core + Adhesive Tape	N/A
Color	Blake	Visual
Density	400 kg/m ³	ASTM D1056
Thickness Range	0.55mm	Graphite PET film
Thermal Conductivity	1300~1500 W/m-K (x.y)	ASTM D5470
Thermal Conductivity	15~20 W/m-K (z)	ASTM D5470
180° bending resistance	10000	internal standard
Available Width Range	3~25mm	internal standard
Available Length Range	5~300mm	internal standard
Available Thickness Range	0.6~5mm	internal standard
Volume Resistivity	10 ¹³ Ω-cm	ASTM D257
Temperature Range	-40°C to 130°C	VOT Test Method
Flammability Rating	Equivalent to V-0	UL 94

Typical Applications

- Pluggable Transceiver Modules / Optical Modules
- Notebooks, PCs, and Tablets
- Sliding Connections & Insertion Applications
- Enclosure and Chassis Thermal Grounding
- Consumer Electronics requiring lightweight thermal solutions

Storage Conditions

- Storage Temperature: 10°C to 22°C, RH <70%
- Shelf Life: 12 months under above conditions

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SS-	2000	-	XXXXXX	-	XXX
Gasket	Graphite-over-Foam		size		Length
			200200=W:20*H:20		065=6.5mm
			254254=25.4*25.4		100=10.0mm

Limited Warranty: For a period of 12 months from the date of first sale, VOT warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s).
NOTE: VOT does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform its own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.