

Premium Non-Silicone Thermal Pad for High-Reliability Electronics

Product Description

VOT SF-79N is a premium non-silicone thermal interface pad designed for high-reliability electronic systems requiring efficient heat dissipation, mechanical stability, and siloxane-free operation.

Delivering 9 W/m·K thermal conductivity with a balanced Shore OO 55 hardness, SF-79N provides an optimized combination of thermal performance, structural integrity, and compressibility for demanding thermal architectures.

Unlike conventional non-silicone thermal pads that often suffer from rigidity and poor conformability, SF-79N maintains excellent interface contact while providing enhanced mechanical support during long-term operation and assembly.

The SF series eliminates the risk of low molecular siloxane migration and outgassing associated with traditional silicone-based thermal materials, making SF-79N particularly suitable for sensitive electronic, networking, optical, automotive, and industrial applications requiring clean and reliable thermal interfaces.

FEATURES & BENEFITS

● Advanced Non-Silicone Formulation:

Eliminates siloxane migration and contamination risks in sensitive electronic systems.

● High Thermal Conductivity:

9 W/m·K thermal performance supports efficient heat transfer in high-power applications.

● Enhanced Structural Stability:

Balanced Shore OO 55 hardness improves mechanical support and assembly reliability.

● Excellent Interface Conformability:

Maintains effective surface contact across uneven component interfaces.

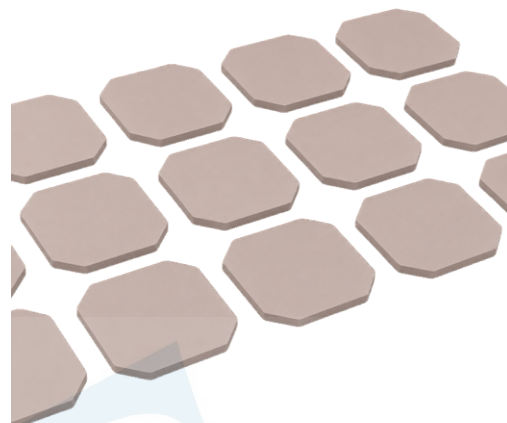
● Reliable Long-Term Performance:

Engineered for stable thermal and mechanical characteristics during extended operation.

● Clean Thermal Interface Solution:

Ideal for contamination-sensitive optical and electronic environments.

PROPERTY	SF-79N	TEST METHOD
Construction	Ceramic Filled polyolefin elastomer	N/A
Color	Rosy Gray	Visual
Density	3.3 g/cc	ASTM D792
Thickness Range	0.3mm~10.0mm	N/A
Thermal Conductivity	9.0 W/m·K	Hot Disk
Rth at 1mm,10psi	0.14 °C·in ² /W	ASTM D5470
Hardness Shore OO	55	ASTM D2240
Dielectric Constant@1MHz	8 @1MHz	ASTM D150
Dielectric Strength	>8 KVac/mm	
Volume Resistivity	10 ¹⁴ Ω·cm	ASTM D257
Temperature Range	-40°C to 150°C	VOT Test Method
Flammability Rating	V-0	UL 94



Typical Applications

- AI Servers & Data Center Systems
- Networking & Telecommunications Equipment
- Optical Modules & Transceivers
- Automotive Electronics
- Industrial Computing Systems
- Power Conversion Devices
- GPU / CPU Thermal Management
- High-Reliability Electronic Assemblies

Storage Conditions

- Storage Temperature: 15°C to 35°C, RH <50%
- Shelf Life: 12 months under above conditions

TW: +886-2-24511685

KS: +86-512-57456656

CZ: +86-519-82208589

service@VOT-thermal.com.tw

sales@VOT-thermal.com

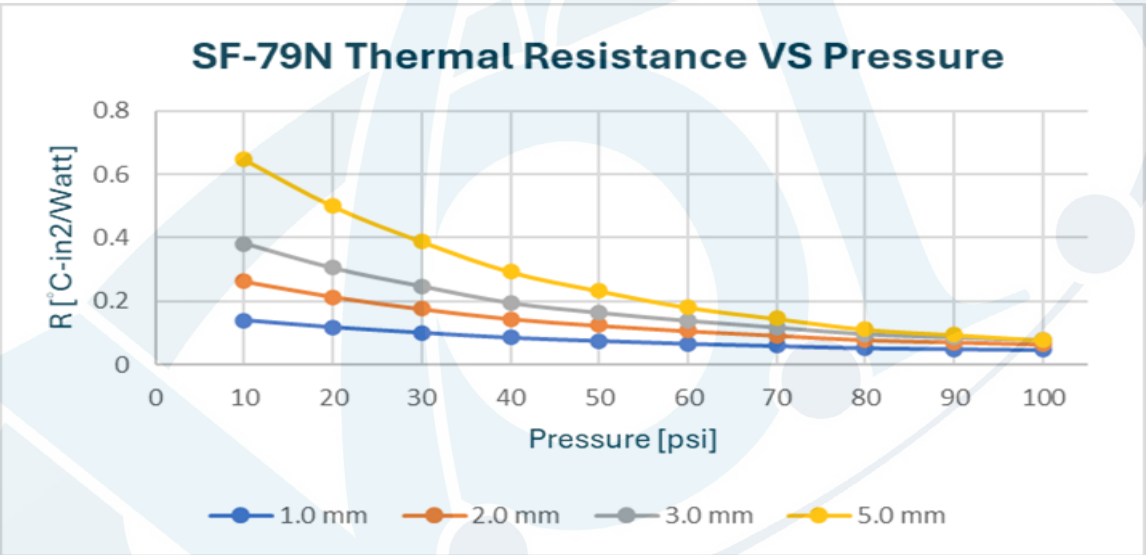
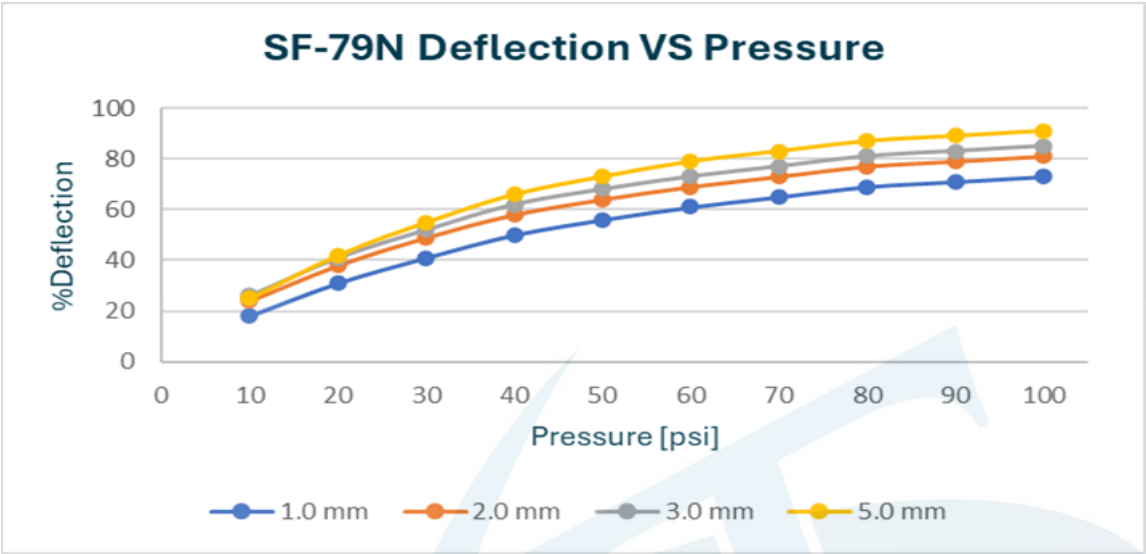
<https://vot-thermal.com/>

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.

SF-79N

Premium Non-Silicone Thermal Pad for High-Reliability Electronics



SF-	79N	-	xxxxxx	-	xxx
non-silicone	9W/m.K		size		Thickness
			200200=20*20		005=0.5mm
			254254=25.4*25.4		010= 1.0mm

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.