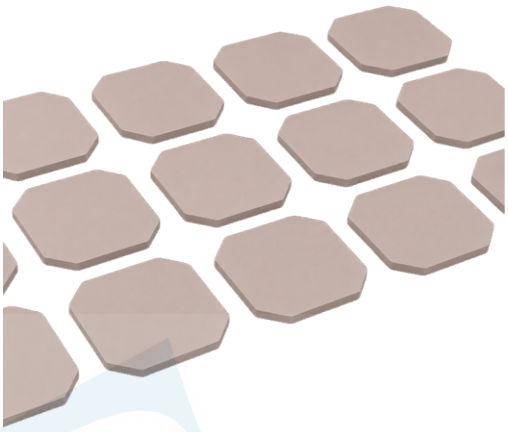
SF-79N

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/

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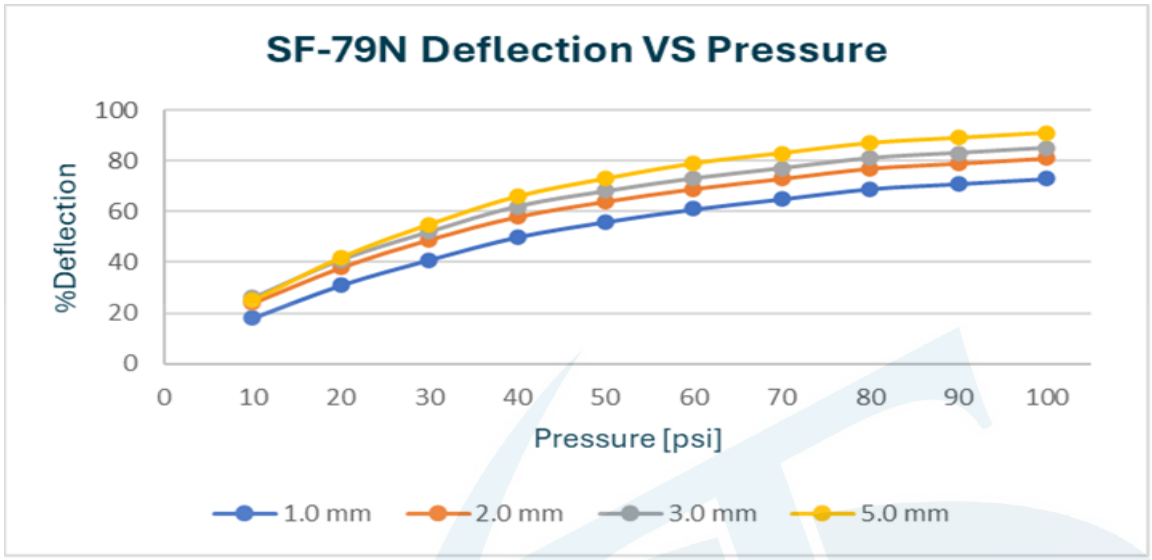

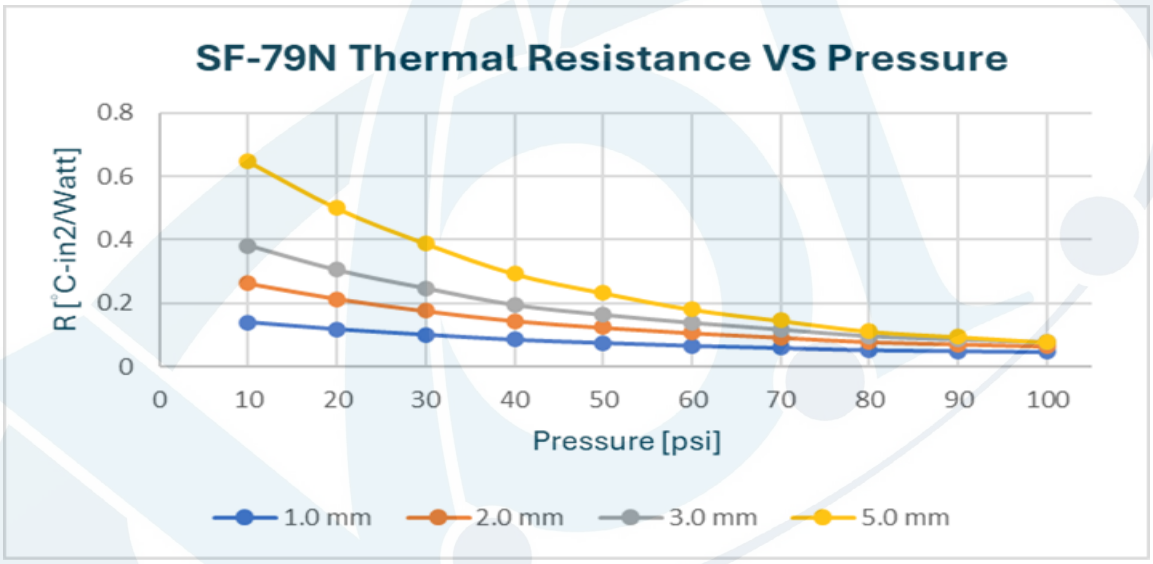

SF-	79N	-	XXXXXX	-	XXX
non-silicone	9W/m.K		size		Thickness
			200200=20*20		005=0.5mm
			254254=25.4*25.4		010=1.0mm