

Ultra-Low Stress Non-Silicone Thermal Pad for Delicate Electronics

Product Description

VOT SF-74S is an ultra-soft non-silicone thermal interface pad designed for delicate electronic assemblies requiring minimal mechanical stress, exceptional compressibility, and reliable thermal performance.

With 4 W/m-K thermal conductivity and an ultra-low Shore OO 25 hardness, SF-74S delivers outstanding surface conformability and cushioning performance for fragile components and low-pressure assembly structures.

Unlike conventional non-silicone thermal pads that are typically rigid and difficult to compress, SF-74S maintains excellent softness and flexibility while providing stable thermal transfer performance.

The SF series eliminates the risk of siloxane migration and outgassing associated with silicone-based thermal materials, making SF-74S especially suitable for sensitive electronic, optical, portable, and precision electronic applications requiring clean and low-stress thermal interfaces.

FEATURES & BENEFITS

● Ultra-Low Stress Interface Design:

Shore OO 25 hardness minimizes mechanical stress on fragile electronic components.

● Exceptional Compressibility:

Highly conformable structure improves interface contact under low assembly pressure.

● Non-Silicone Formulation:

Eliminates siloxane contamination and outgassing risks.

● Excellent Surface Wetting:

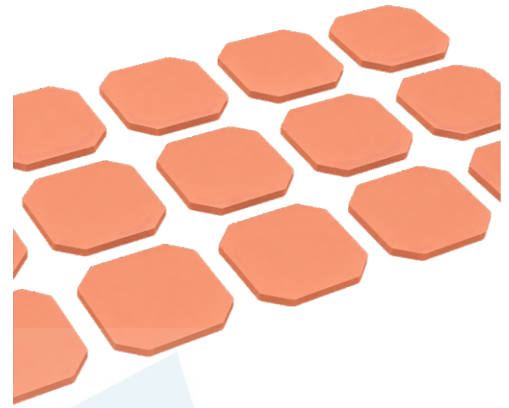
Soft material structure enhances thermal interface contact efficiency.

● Reliable Thermal Performance:

4 W/m-K conductivity supports stable heat dissipation for compact electronics.

● Ideal for Precision Electronics:

Suitable for sensitive optical and low-pressure electronic assemblies.



PROPERTY	SF-74S	TEST METHOD
Construction	Ceramic Filled polyolefin elastomer	N/A
Color	Peach	Visual
Density	3.0 g/cc	ASTM D792
Thickness Range	0.5mm~10.0mm	N/A
Thermal Conductivity	4.0 W/m-K	Hot Disk
Rth at 1mm,10psi	0.27 °C-in ² /W	ASTM D5470
Hardness Shore OO	25	ASTM D2240
Dielectric Constant@1MHz	7 @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

- Notebook & Portable Electronics
- Optical Modules & Camera Systems
- SSD & Memory Devices
- Thin Electronic Assemblies
- Networking Equipment
- Industrial Electronics
- Low-Clamping-Force Applications
- Sensitive Electronic Components

Storage Conditions

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

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KS: +86-512-57456656

CZ: +86-519-82208589

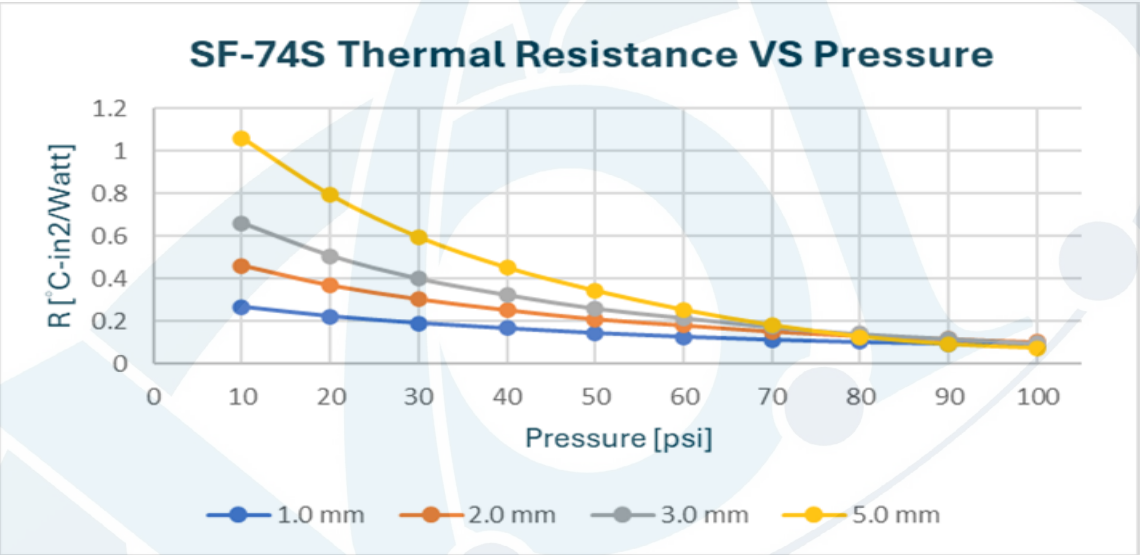
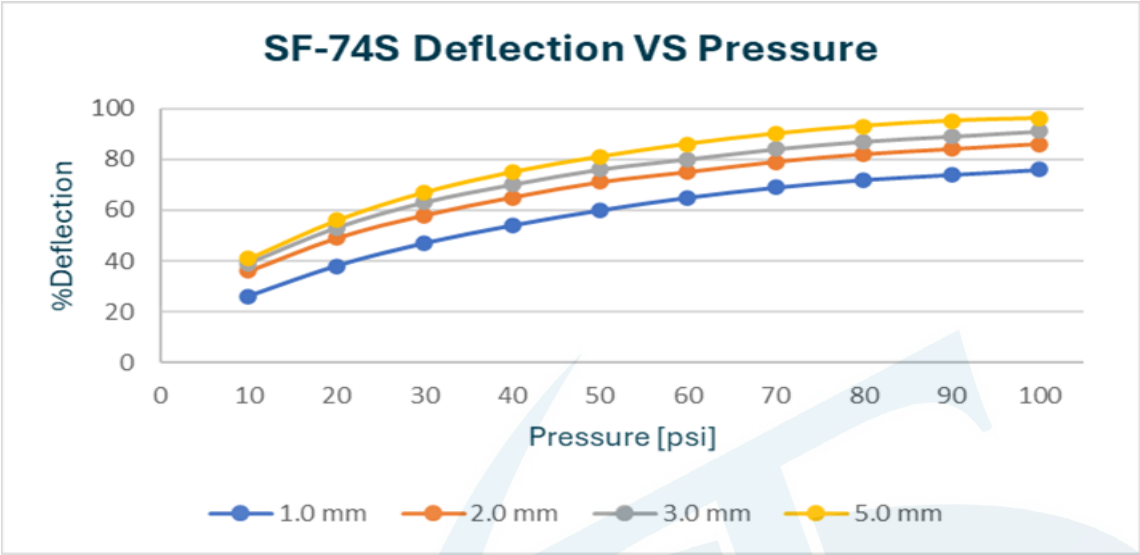
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Limited Warranty: For a period of 12 months from the date of first sale, VOT warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our 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-	74S	-	XXXXXX	-	XXX
non-silicone	4W/m.K		size		Thickness
			200200=20*20		005=0.5mm
			254254=25.4*25.4		010=1.0mm

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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.