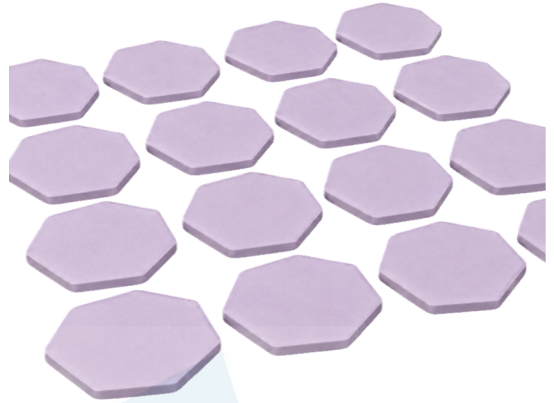


Ultra-Conformable Thermal Pad for High-Density Electronics

Product Description

VOT VK-X8 is an advanced pseudo-plastic thermal interface pad engineered to deliver exceptional thermal performance, ultra-high compressibility, and superior handling stability. With 9 W/m-K thermal conductivity and a soft Shore OO 40 hardness, VK-X8 achieves a rare balance between low mechanical stress and enhanced structural integrity. Unlike conventional ultra-soft high-filled thermal pads that often become fragile or difficult to handle, VK-X8 maintains excellent material cohesion and processability through VOT's proprietary long-chain structural matrix technology.

The controlled putty-like flow behavior enables outstanding surface wetting and gap-filling capability while maintaining reliable handling characteristics during assembly. Operating as a D3–D20 non-detectable thermal solution, VK-X8 also minimizes the siloxane migration and outgassing risks commonly associated with conventional soft silicone thermal materials.



FEATURES & BENEFITS

● Breakthrough Soft High-K Architecture:

Achieves exceptional softness without the fragile or mud-like behavior of conventional ultra-soft TIMs.

● Controlled Putty-Like Conformability:

Pseudo-plastic structure improves contact efficiency under compression.

● Superior Processability:

Enhanced material cohesion enables cleaner die-cutting and assembly handling.

● Reduced Siloxane Risk:

D3–D20 non-detectable formulation improves long-term reliability.

● High Compression Efficiency:

Excellent gap-filling capability for uneven and complex interfaces.

● Stable Long-Term Reliability:

Designed for advanced high-density electronic thermal architectures.

PROPERTY	VK-X8	TEST METHOD
Construction	Ceramic Filled Silicone sheet	N/A
Color	Light Red	Visual
Density	3.4 g/cc	ASTM D792
Thickness Range	0.3mm~6.0mm	N/A
Thermal Conductivity	9.0 W/m-K	Hot Disk
Rth at 1mm,10psi	0.12 °C-in ² /W	ASTM D5470
Hardness Shore OO	40	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
Siloxane Volatile Content (D3–D20)	Not Detected	GC-MS

Typical Applications

- AI Servers & GPU Accelerators
- High-Performance Computing Systems
- Networking & Telecommunications
- Optical Modules & Transceivers
- Advanced Packaging Thermal Interfaces
- Automotive Electronics
- High-Density Power Devices
- Sensitive Electronic Assemblies
- Aerospace & Avionics

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

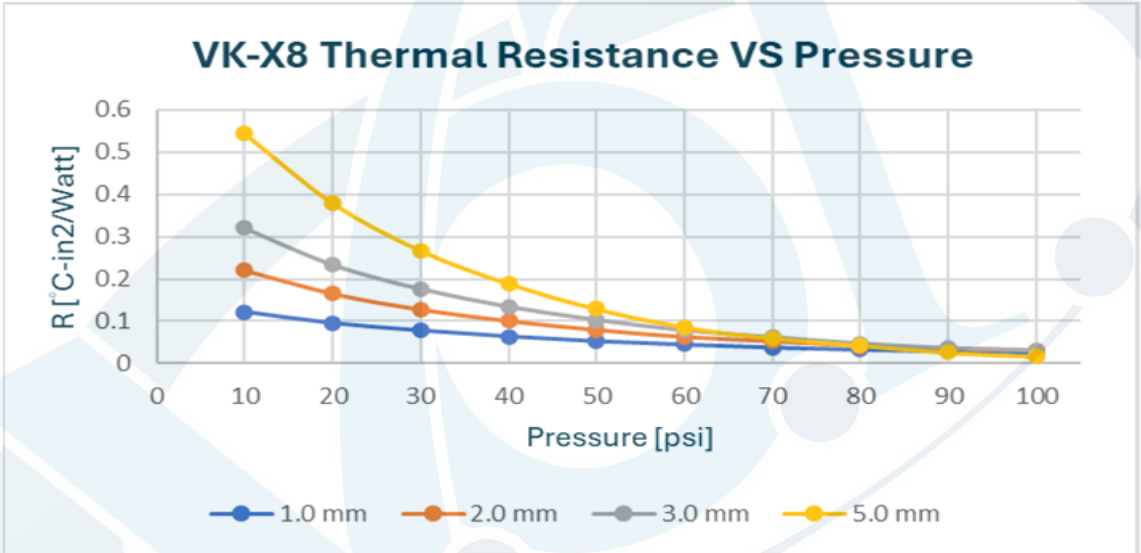
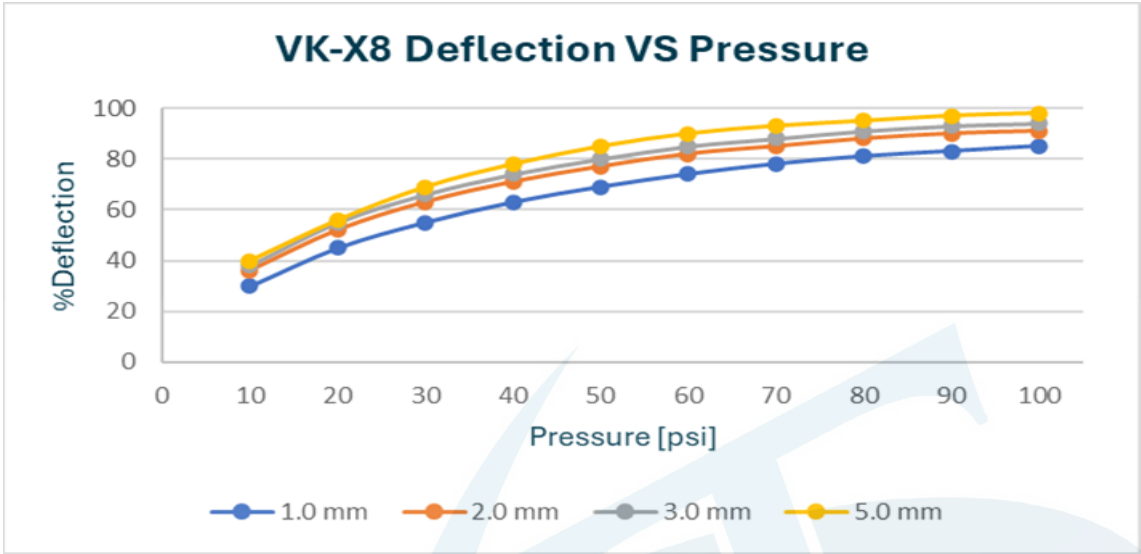
CZ: +86-519-82208589

service@VOT-thermal.com.tw

sales@VOT-thermal.com

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.



VK-	X8	-	XXXXXX	-	XXX
Gap filler	X-series		size		Thickness
			200200=20*20		008=0.8mm
			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.