

VK-X3LS

Thermal Interface Material



Product Description

VK-X3LS is a soft and resilient thermal interface pad designed for applications requiring low mechanical stress, high elasticity, and stable thermal performance.

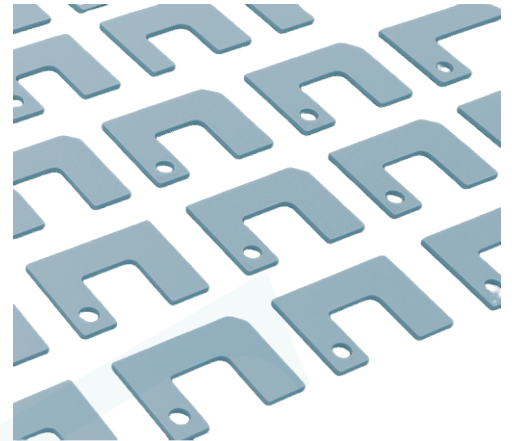
With a thermal conductivity of 3.0 W/m-K and a Shore OO hardness of 35, the material provides exceptional compressibility and elastic recovery, effectively minimizing mechanical load on sensitive components while maintaining excellent contact stability.

The surface of VK-X3LS exhibits high natural wettability, ensuring efficient interfacial heat transfer and easy surface conformity.

Its high tensile strength and self-recovering structure make it easy to handle, apply, and re-use during assembly or maintenance, even after multiple reworks.

VK-X3LS is formulated as a clean, siloxane-free material (D3 – D20 Non-Detectable) that prevents contamination of optical or electronic systems.

Within its performance category, it offers superior cost-to-performance competitiveness, making it a versatile choice for a wide range of thermal management designs.



FEATURES & BENEFITS

- Thermal Conductivity: 3.0 W/m-K
- Low stress and high elastic recovery to protect components
- High surface wettability for optimal contact and low thermal resistance
- Excellent tensile strength and reworkable design
- Compliance: RoHS / REACH / UL 94 V-0 certified
- Siloxane-free (D3 ~ D20 Non-Detectable) clean formulation
- User-friendly handling and easy re-application
- Highly competitive cost within its class

PROPERTY	VK-X3LS	TEST METHOD
Construction	Ceramic Filled Silicone sheet	N/A
Color	Light Blue	Visual
Density	3.0 g/cc	ASTM D792
Thickness Range	0.3mm~12.0mm	N/A
Thermal Conductivity	3.0 W/m-K	ASTM D5470
Rth at 1mm,10psi	0.45 °C-in ² /W	ASTM D5470
Hardness Shore OO	35	ASTM D2240
Siloxane Volatile Content (D3-D20)	Not Detected	GC-MS
Dielectric Constant@1MHz	7.2 @1MHz	ASTM D150
Dielectric Strength	>8 KVac/mm	
Volume Resistivity	10 ¹⁴ Ω-cm	ASTM D257
Temperature Range	-40°C to 180°C	VOT Test Method
Flammability Rating	V-0	UL 94

Typical Applications

- Notebook / Desktop CPUs and GPUs
- Power ICs and MOSFET modules
- Network and 5G communication equipment
- Automotive electronics
- Industrial control units and power converters
- Consumer and smart devices

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

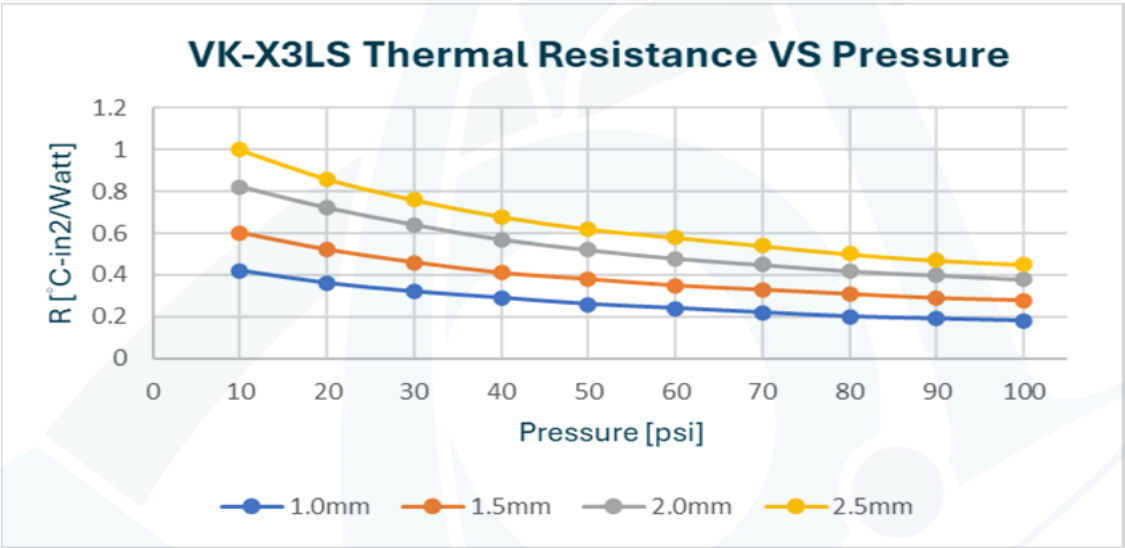
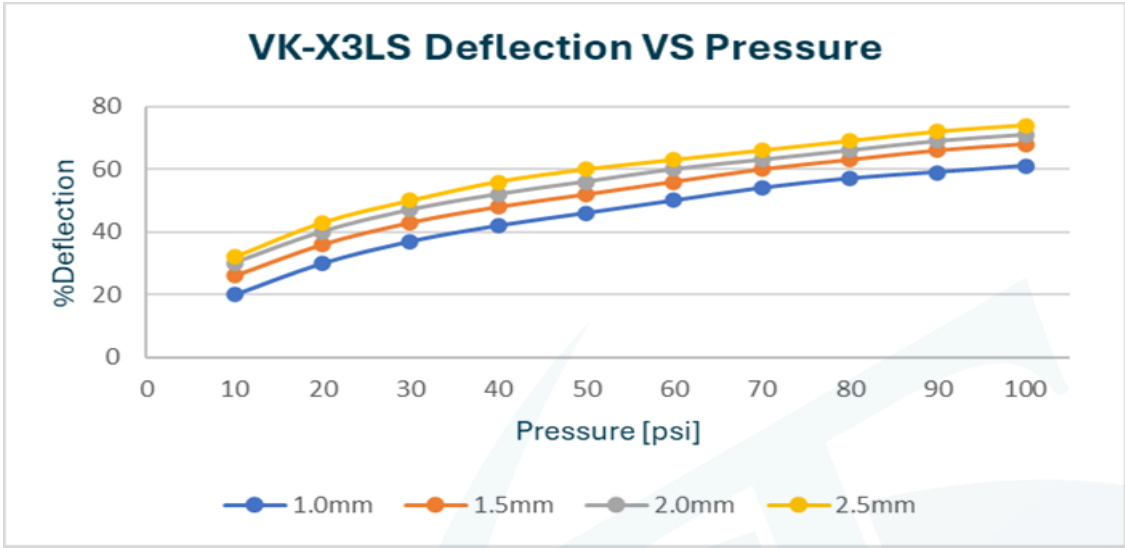
service@VOT-thermal.com.tw

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.

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VK-	X3LS	-	XXXXXX	-	XXX
Gap filler	1: one side tack free 3: VK-6100 on one side 4: fiberglass reinforcement		size 200200=20*20 254254=25.4*25.4		Thickness 008=0.8mm 010=1.0mm

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