

VK-X7N

Extremely Compressible Gap Filler



Product Description

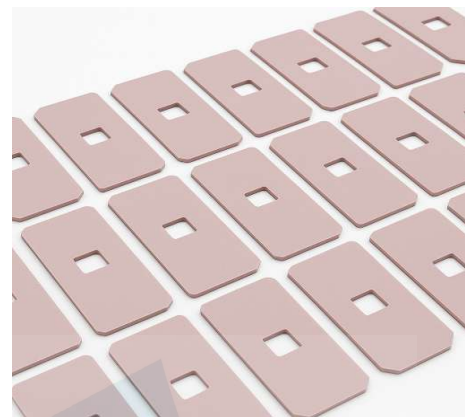
VK-X7N is an ultra-soft, high-performance thermal interface pad engineered for applications requiring both superior thermal conductivity and minimal mechanical stress.

With a thermal conductivity of 8.0 W/m-K (by Hot Disk method) and an extremely low hardness of Shore 00: 25, VK-X7N delivers exceptional conformability to uneven surfaces, ensuring efficient heat transfer under low compression force.

This clean-grade material is siloxane-free and confirmed non-detectable for D3~D20 low-molecular siloxanes, making it ideal for sensitive optical, communication, and automotive electronics where silicone volatility is a concern.

FEATURES & BENEFITS

- Thermal Conductivity: 8.0 W/m-K measured by Hot Disk method
- Shore 00: 25 hardness for superior surface wet-out
- Minimizes mechanical and thermal stress during assembly and operation
- D3~D20 siloxanes non-detect; no volatile siloxane contamination
- Excellent long-term thermal stability and mechanical recovery
- Available from 0.5 mm to 6.0 mm



PROPERTY	VK-X7N	TEST METHOD
Construction	Ceramic Filled Silicone sheet	N/A
Color	Light Red	Visual
Density	3.3 g/cc	ASTM D792
Thickness Range	0.5mm~6.0mm	N/A
Thermal Conductivity	8.0 W/m-K 13 W/m-K	HOT DISK ASTM D5470
Rth at 1mm,10psi	0.11 °C-in ² /W	ASTM D5470
Hardness Shore OO	25	ASTM D2240
Hardness Shore OOO	65	ASTM D2240
Siloxane Volatile Content (D3-D20)	Not Detected	GC-MS
Dielectric Constant@1MHz	8.2@1MHz	ASTM D150
Dielectric Strength	>8 KVac/mm	
Volume Resistivity	10 ¹³ Ω-cm	ASTM D257
Temperature Range	-40°C to 150°C	VOT Test Method
Flammability Rating	V-0	UL 94

Typical Applications

- 5G base stations and network devices
- High-density computing modules (AI servers)
- CPUs, GPUs, and memory modules
- Automotive electronics and ADAS control units
- Consumer and industrial power modules
- Optical transceivers and communication components

Storage Conditions

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

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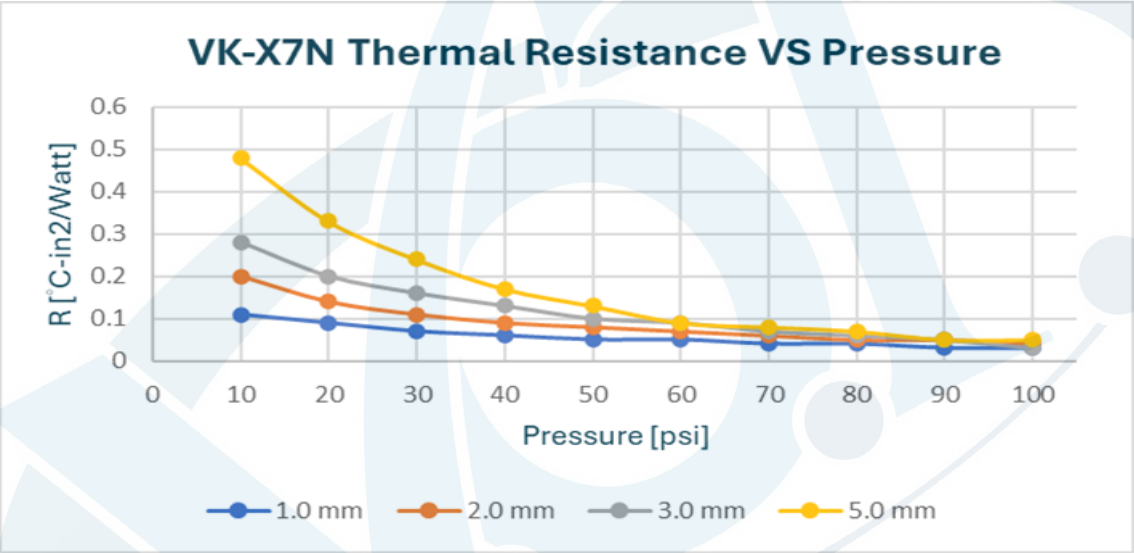
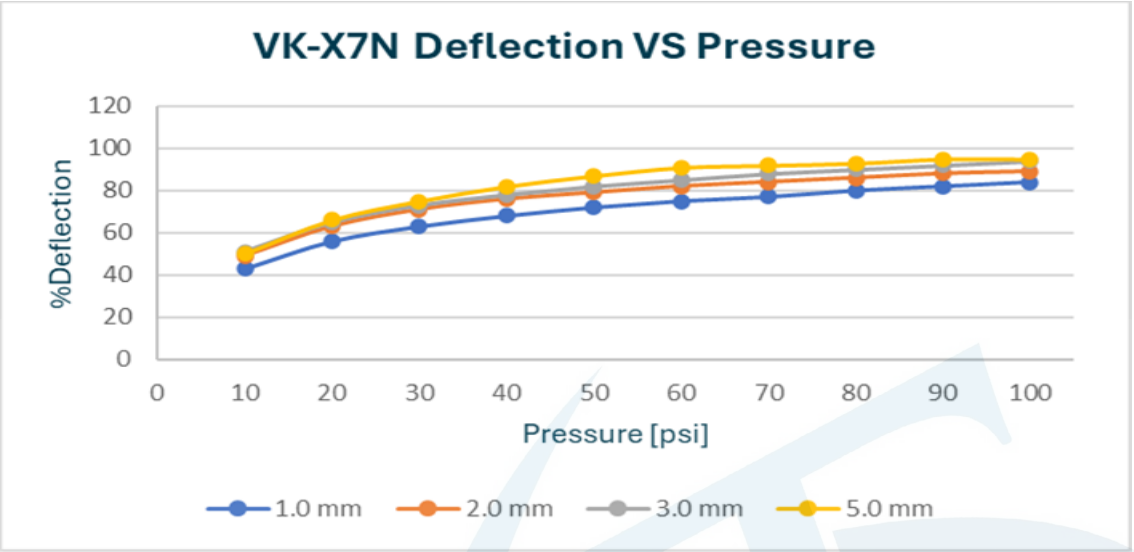
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Limited Warranty: For a period of 12 months from the date of first sale, VOT warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our 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.

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VK-	X7N	-	XXXXXX	-	XXX
Gap filler	1: one side tack free		size		Thickness
	3: VK-6100 on one side		200200=20*20		008=0.8mm
	4: fiberglass reinforcement		254254=25.4*25.4		010=1.0mm

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