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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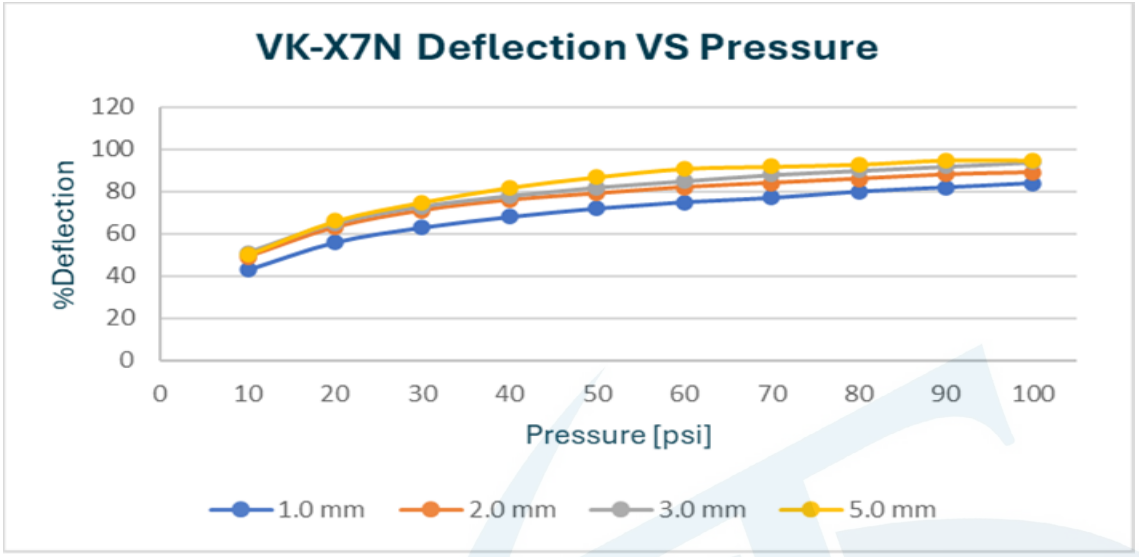

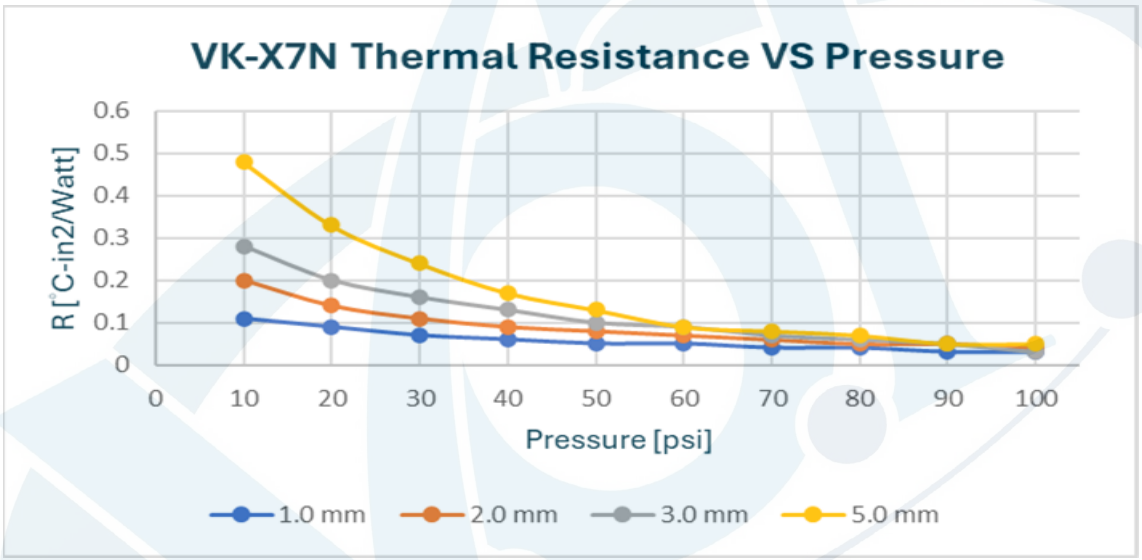

VK-	X7N	-	XXXXXX	-	XXX
Gap filler	1: one side tack free		size		Thickness
	3: VK-6100 on one side		200200=20*20		008=0.8mm
	4: fiberglass reinforcement		254254=25.4*25.4		010=1.0mm