

Structurally Stable Putty-Like Thermal Pad for High-Reliability Cooling

Product Description

VOT VK-X7 is an advanced structurally stable putty-like thermal interface pad engineered to combine high thermal conductivity, excellent compressibility, and superior handling stability.

Delivering 8 W/m-K thermal conductivity with a balanced Shore OO 50 hardness, VK-X7 achieves an optimized combination of structural integrity, surface conformability, and low-stress thermal performance. Unlike conventional high-filled soft thermal pads that often become fragile or difficult to handle, VK-X7 maintains excellent material cohesion and controlled putty-like conformability through VOT's proprietary long-chain structural matrix technology.

Operating as a D3-D20 non-detectable thermal solution, VK-X7 also minimizes siloxane migration and outgassing risks for sensitive electronic applications.

FEATURES & BENEFITS

● Structurally Stable Putty-Like Design:

Maintains excellent material cohesion while improving interface conformability.

● High Thermal Conductivity:

8 W/m-K thermal performance supports demanding heat dissipation applications.

● Enhanced Structural Integrity:

Balanced Shore OO 50 hardness improves handling stability and assembly reliability.

● Excellent Gap-Filling Capability:

Controlled putty-like conformability enhances surface wetting across uneven interfaces.

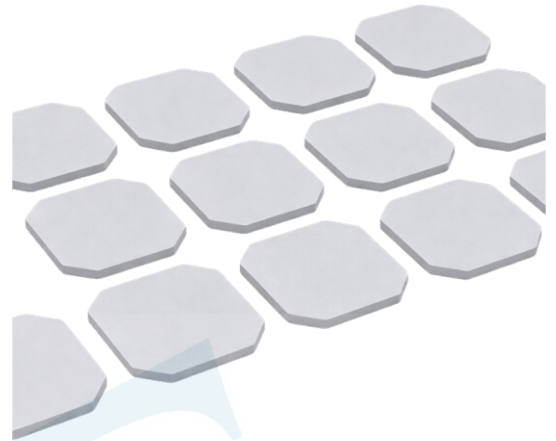
● Superior Processability:

Stable material structure improves die-cutting and assembly handling performance.

● D3-D20 Non-Detectable:

Ultra-clean formulation minimizes siloxane migration and outgassing risks.

PROPERTY	VK-X7	TEST METHOD
Construction	Ceramic Filled Silicone sheet	N/A
Color	Light Grey	Visual
Density	3.4 g/cc	ASTM D792
Thickness Range	0.3mm~6.0mm	N/A
Thermal Conductivity	8.0 W/m-K	Hot Disk
Rth at 1mm,10psi	0.12 °C-in ² /W	ASTM D5470
Hardness Shore OO	50	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
- Networking & Telecommunications
- High-Performance Computing Systems
- Optical Modules & Transceivers
- Power Conversion Devices
- Automotive Electronics
- Industrial Computing Systems
- High-Density Electronic Assemblies
- Aerospace & Avionics

Storage Conditions

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

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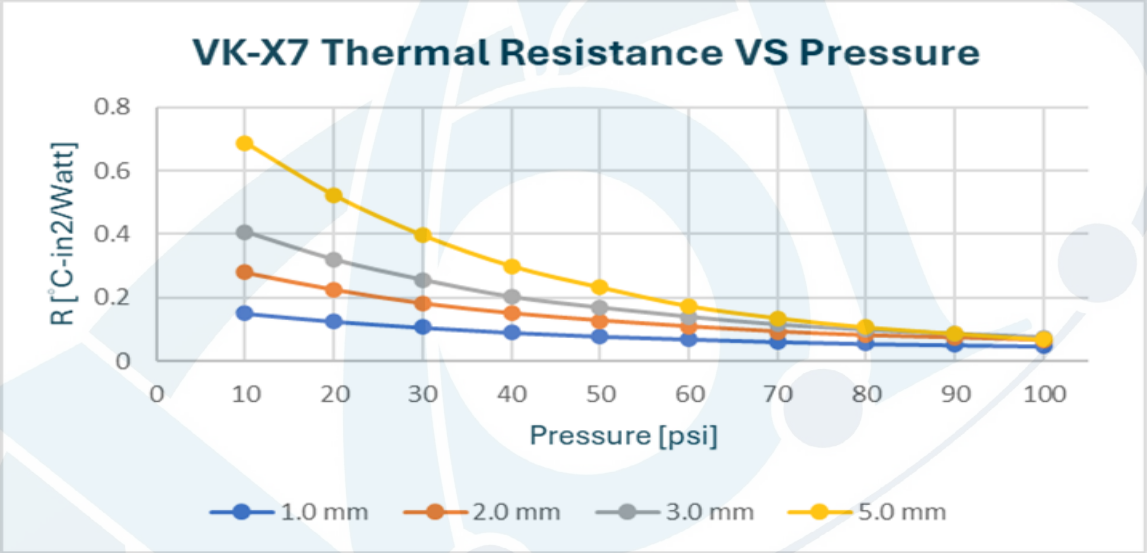
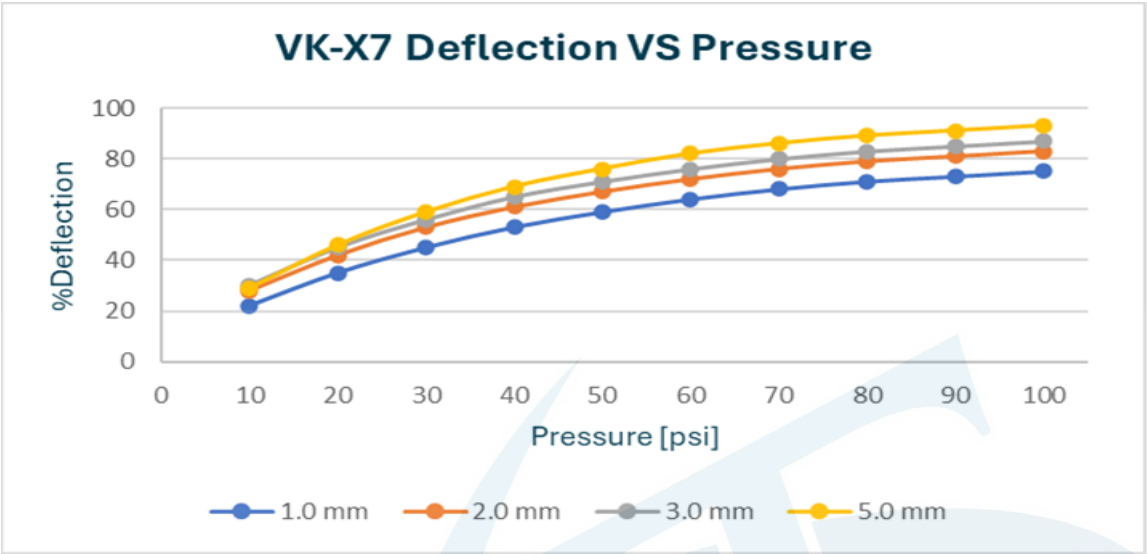
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Limited Warranty: For a period of 12 months from the date of first sale, VOT warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our 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-	X7	-	XXXXXX	-	XXX
Gap filler	X-series		size		Thickness
			200200=20*20		008= 0.8mm
			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.