

VK-X403

Thermal Interface Material



Product Description

VK-X403 is a high-performance thermal pad engineered to deliver an excellent balance of thermal conductivity (4.0 W/m-K), softness, and structural resilience.

With a Shore OO hardness of 40, the material provides outstanding compressibility and elastic recovery, ensuring stable thermal contact even under repeated assembly or mechanical vibration.

The surface exhibits high natural wettability, allowing it to conform easily to component surfaces and minimize interfacial thermal resistance.

VK-X403 also features high cohesive strength, making it easy to handle, apply, and re-use without tearing or deformation — ideal for both manual and automated assembly lines.

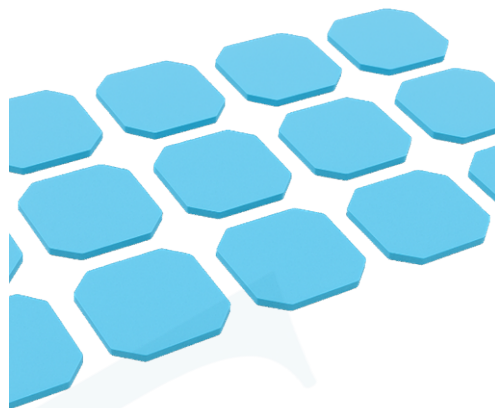
This material fully complies with VOT's Clean Material Standard (D3–D20 Non-Detectable), ensuring zero volatile siloxane risk while maintaining long-term reliability and environmental safety.

In the mid-level thermal performance class, VK-X403 offers exceptional cost-to-performance competitiveness, making it one of the most versatile solutions for broad electronic applications.

FEATURES & BENEFITS

- Thermal Conductivity: 4.0 W/m-K
- Shore OO 40 hardness with high elastic recovery
- Excellent surface wettability for low thermal contact resistance
- High mechanical integrity, resists tearing during rework or re-assembly
- Compliance: RoHS / REACH / UL 94 V-0 certified
- Easy handling and reusability
- Cost-effective solution within its performance class

PROPERTY	VK-X403	TEST METHOD
Construction	Ceramic Filled Silicone sheet	N/A
Color	Cyan	Visual
Density	3.1 g/cc	ASTM D792
Thickness Range	0.3mm~8.0mm	N/A
Thermal Conductivity	4.0 W/m-K	ASTM D5470
Rth at 1mm,10psi	0.32 °C-in ² /W	ASTM D5470
Hardness Shore OO	40	ASTM D2240
Siloxane Volatile Content (D3–D20)	Not Detected	GC-MS
Dielectric Constant@1MHz	7.5 @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

- Notebook / Desktop PC processors
- 5G networking equipment
- Power modules and VRM components
- Communication base stations
- Industrial control systems
- Consumer electronics

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

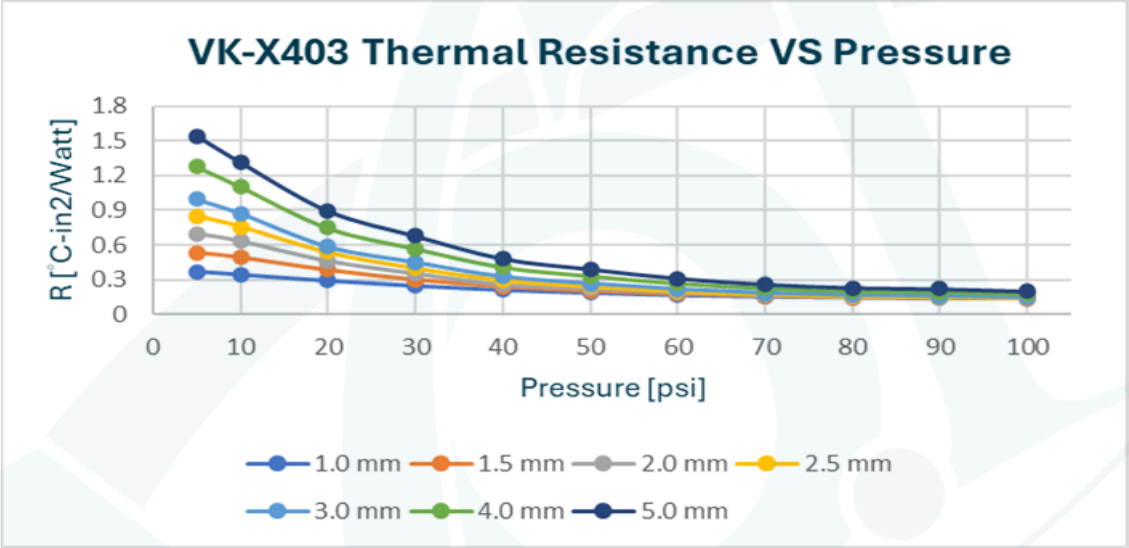
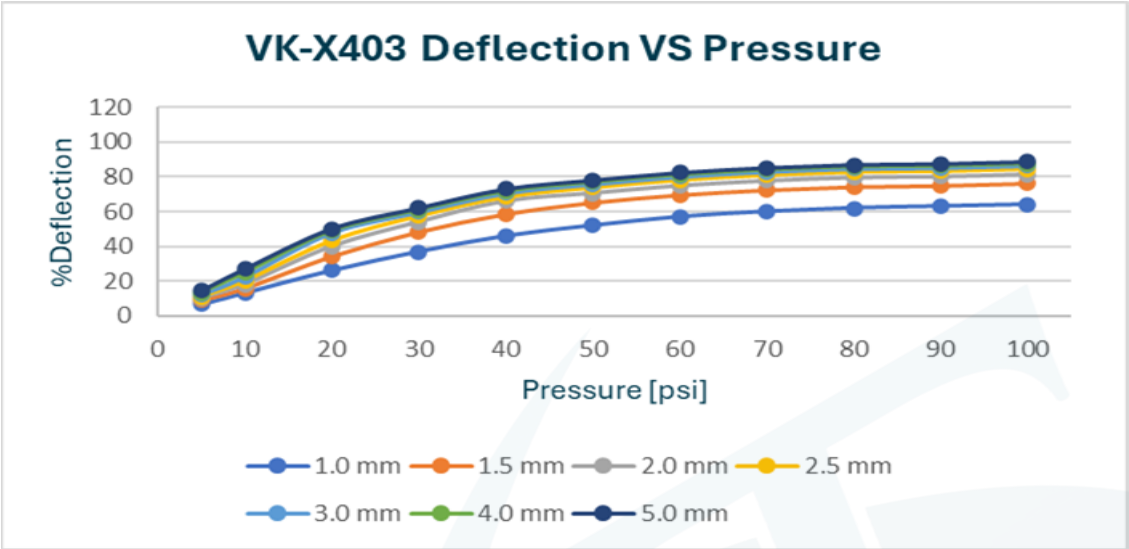
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Limited Warranty: For a period of 12 months from the date of first sale, VOT warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our 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-	X403	-	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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