

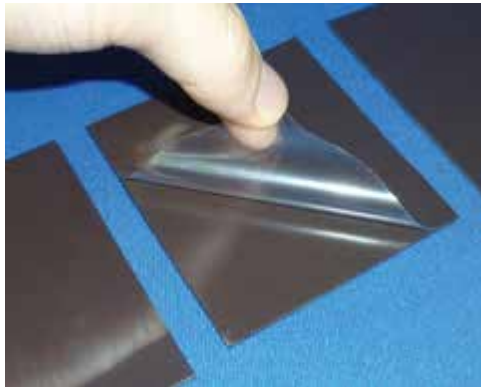
NEW!

Silicone-Free



EMI Absorber And Thermal Pad – EMPV4 Series

Prior to using KGS parts, please read our "Product Important Notice" at <http://kgs-ind.com/products/product-important-notice/>



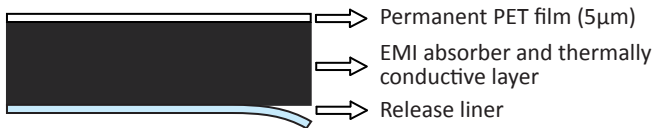
Silicone-free thermal interface material with EMI noise suppression

- No siloxane outgassing concerns
- Compliant material (ASKER C 40) that conforms to uneven surfaces
- Excellent EMI absorber performance ($\mu' = 13$ at 10MHz)
- High operating temperature from $-40 \sim +110^\circ\text{C}$
- Custom profile available upon request (such as layering together with another silicone free thermal pad)

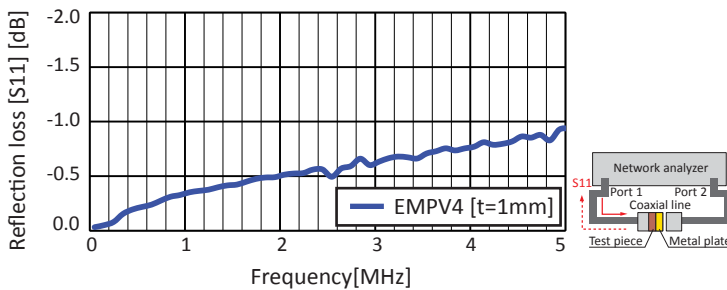
Properties

Property	Test Method	EMPV4
Thickness (mm)	—	1.0, 1.5, 2.0
Standard Sheet Size (mm)	—	210 x 510
Thermal Conductivity (W/m•K)	JIS R 2616 Hot-wire method	1.5
	ISO 22007-2 Hot-disc method	1.3
	ASTM D5470	1.4
Hardness (ASKER C)	JIS K 7312	40
Magnetic Permeability (μ' at 10MHz)	—	13
Volume Resistivity ($\Omega \cdot \text{cm}$)	JIS K 6911	1×10^{12}
Flame Resistance	UL94	V-0 Equivalent
Operating Temperature ($^\circ\text{C}$)	—	$-40 \sim 110$
Color	—	Black

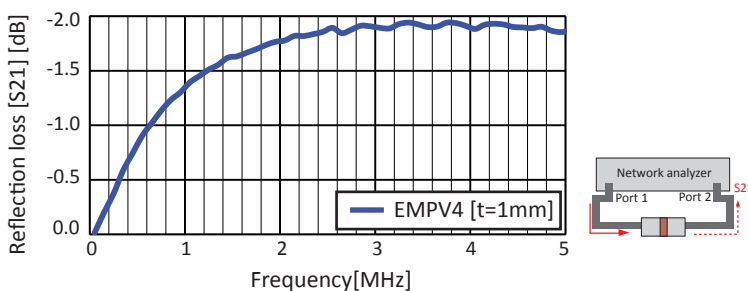
Cross-section view



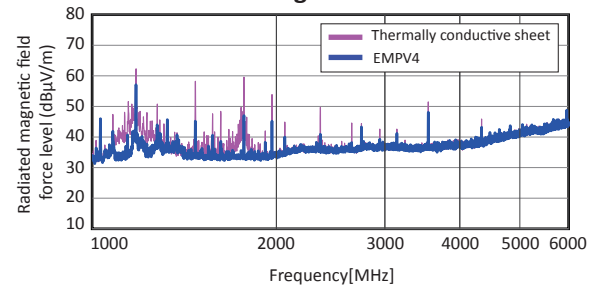
Transmission Loss



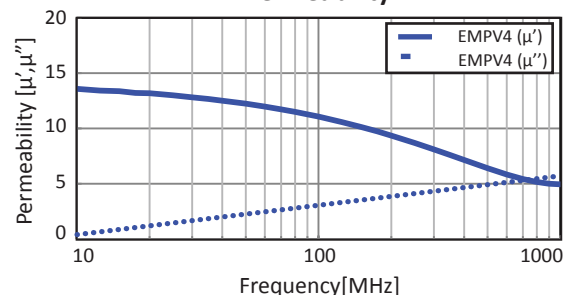
Reflection Loss



Shielding Effectiveness



Permeability



Please request for detailed product specification data prior to purchase



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Volume resistivity stated on our EMI absorber flyer is meant for noise control parameters, where the absorber is considered a conductor, but not for insulation performance. Care should be taken when using absorbers. KITAGAWA INDUSTRIES America, Inc. makes no guarantees as to electrical resistivity values and accepts no liability due to short circuits where EMI absorbers are used directly on a PC Board or areas near high voltage such as for power. The products are designed for EMI noise reduction for electronics. This is not recommended for applications involving human life or extremely high accuracy. Prior to using the products in production, please verify their performance or adhesive strength of PSA for long term use. Avoid applying any external stress such as bending or high amounts of tension. Note when the absorber products are cut, bent, or pulled, there may be a possibility of creating cracks. For storage, keep products in a cool, dry, well-ventilated area at room temperature and avoid high temperatures, humidity, and direct sunlight.

Please contact the sales department at KITAGAWA INDUSTRIES America, Inc. for the use of our products prior to selecting the parts for your application.

EMPV4 Thermal Pad - REV1-08182016