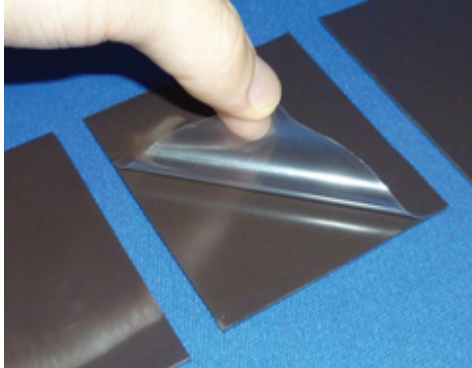


**NEW!**

# EMI Absorber And Thermal Pad EMPV4-F Series



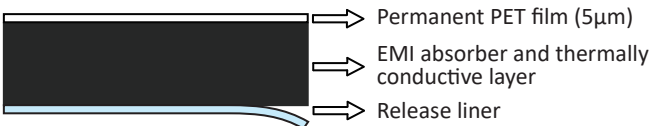
**Silicone-Free**



## 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)

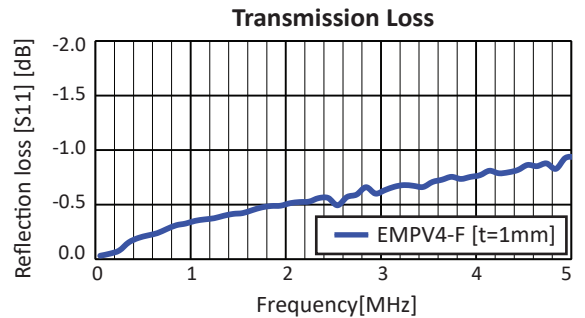
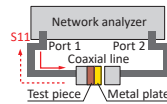
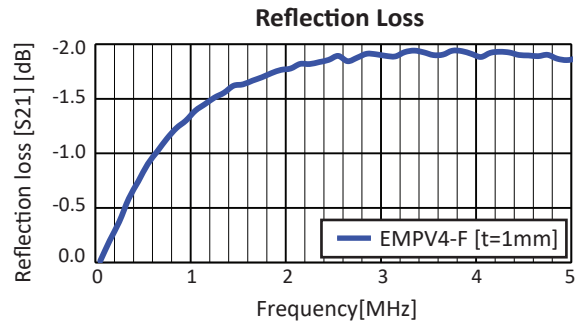
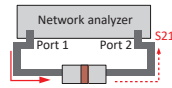
### Cross-section view



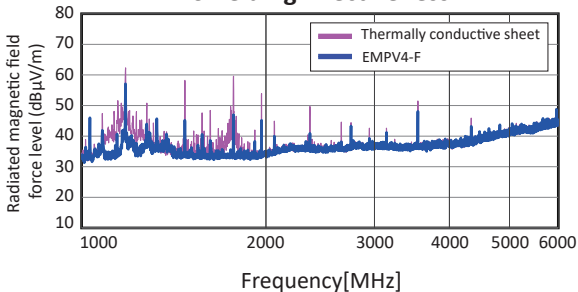
\*both sides tacky available upon request

### Properties

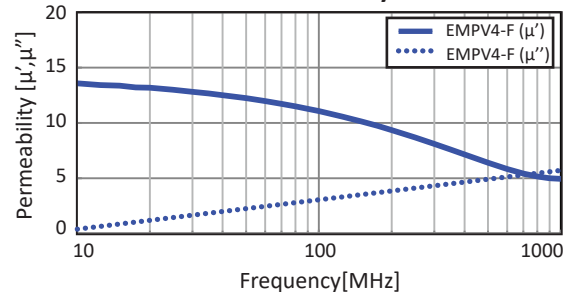
Property	Test Method	EMPV4-F
Thickness (mm)	—	1.0, 1.5, 2.0
Standard Sheet Size (mm)	—	210 x 510
Thermal Conductivity (W/m•K)	JIS R2616 Hot-wire method	1.5
	ISO 22007-2 Hot-disc method	1.3
	ASTM D5470	1.4
Hardness (ASKER C)	JIS K7312	40
Magnetic Permeability ( $\mu'$ at 10MHz)	—	13
Volume Resistivity ( $\Omega \cdot \text{cm}$ )	JIS K 6911	$1 \times 10^{12}$
Flame Resistance	UL94	V-0 Equivalent
Operating Temperature ( $^\circ\text{C}$ )	—	$-40 \sim 110$
Color	—	Black



### Shielding Effectiveness



### Permeability



All statements, specifications, properties, technical information, and recommendations herein are based on tests; however, the accuracy and completeness are not guaranteed and are subject to change without notice due to product improvement and specification change. This statement is made in lieu of all warranties, expressed or implied, including the implied warranties of marketability, and fitness for purpose. KITAGAWA INDUSTRIES America, Inc. obligation under this warranty shall be limited to replacement of product that proves to be defective. Prior to use, the user shall determine the suitability of the product for its intended use, and the user assumes all risk and liability whatsoever in connection therewith. KITAGAWA INDUSTRIES America, Inc. shall have no liability for any injury, loss, or damage arising out of the use of or the inability to use the products. No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

**KGS KITAGAWA INDUSTRIES America, Inc.**  
2325 Paragon Drive, Suite 10, San Jose, CA 95131  
Tel: 1-855-EMC-PART (1-855-362-7278) Email: sales@kgs-ind.com

Please request for detailed product specification data prior to purchase

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.