EMI Absorber And Thermal Pad EMPV4-F Series

NEW

Silicone-Free



Silicone-free thermal interface material with EMI noise suppression



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

Cross-section view



Properties

Part Number	EMPV4-F
Thickness (mm)	1.0, 1.5, 2.0, 2.5, 3.0, 3.5
Standard sheet size (mm)	210 x 510
*JIS R 2616 Hot-wire method	1.5
Thermal Conductivity (W/m•K) *ISO22007-2 Hot-disc method	1.4
*ASTM D5470	1.4
Hardness (ASKER C) *JIS K 7312	40
Hardness (Shore 00) *ASTM D 2240	70
Volume Resistivity (Ω • cm) *JIS K 6911	1.0 X 10 ¹²
Flame Resistance *UL94	V-0 Equivalent
Operating Temperature (°C)	-40 ~ 110
Color	Black
Specific Gravity *JIS Z 8807	3.55
Tensile Strength (MPa) *JIS K 6251	0.51
Elongation Rate (%) *JIS K 6251	44
Breakdown Voltage (kV/mm) *JIS C 2110-1	6.0
Withstanding Voltage (kV/mm) *JIS C 2110-1	4.2
Dielectric Constant (1 MHz) *Company Standard	12.7
Loss Tangent (1 MHz) *Company Standard	0.13

*TEST METHOD



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 waranties, expressed or implied, including the implied waranties of marketability, and fitness for purpose. KITAGAWA INDUSTRIES America, Inc. obligation under this waranty 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 or 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.

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. Properties











