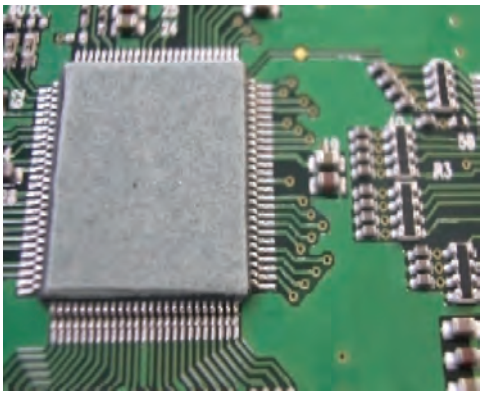
Thermal Pad
CPVS Series

NEW

Silicone-Free



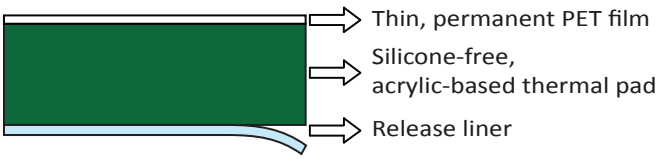
RoHS Compliant

Soft (ASKER C 18) silicone-free thermal pad

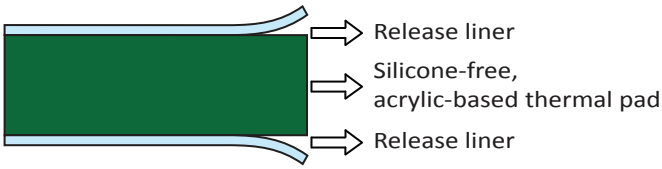
- Excellent stress relaxation property reduces the stress on the elements after mounting.
- Silicone-free material – no siloxane outgassing and reduced oil bleed
- One side self-tacky and both sides self-tacky are available.
- Suitable for vibration control as well.
- Highly conformable, low thermal resistance.

Cross-section view

CPVS-F series: one side PET, one side naturally tacky



CPVS series: both sides naturally tacky

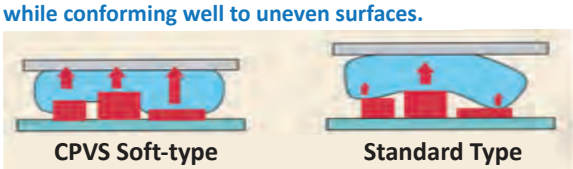


Properties

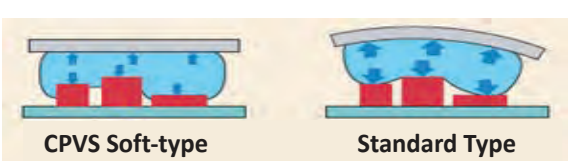
Property (test method)	CPVS-F	CPVS
Thickness (mm)	0.3, 0.5, 1.0, 1.5, 2.0, 2.5	1.0, 1.5, 2.0, 2.5
Standard Sheet Size (mm)	210 x 510	210 x 510
Thermal Conductivity (W/m•K) (JIS R 2616 (hot wire method))	2.0	2.0
Specific Gravity (JIS Z 8807)	1.94	1.94
Hardness (ASKER C) (JIS K 7312)	18	18
Tensile Strength (MPa) (JIS K 6251)	0.32	0.16
Elongation (mm) (JIS K 6251)	5.38	177.5
Volume Resistivity (Ω • cm) (JIS K 6911 (compliant))	$5.3x\ 10^{11}$	$5.3x\ 10^{11}$
Breakdown Voltage (kV/mm) (JIS C 2110-1 (compliant))	4.3	3.9
Withstanding Voltage (kV/mm) (JIS C 2110-1 (compliant))	2.8	2.2
Dielectric Constant (1 MHz) (company standard)	12.1	14.4
Loss Tangent (1 MHz) (company standard)	0.08	0.07
Flame Resistance (UL94)	V-2 (t0.5 - 2mm)	V-2 (t0.5 - 2mm)
Loss Factor (Measured by FWHM method)	0.9	0.9
Operating Temperature (°C)	-40 ~ 100	-40 ~ 100
Color	Green	Green

Features

Soft type thermal pads provide low thermal resistance, while conforming well to uneven surfaces.



Soft type thermal pads more evenly distribute pressure.



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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.