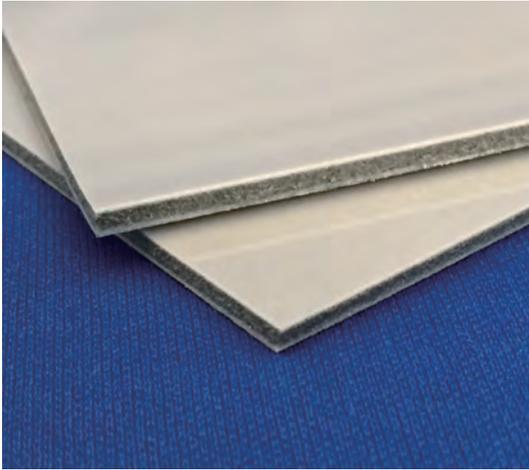


Thermal Pad CPVP-F Series

NEW

Silicone-Free



Soft, 2W/m•K silicone-free thermal putty

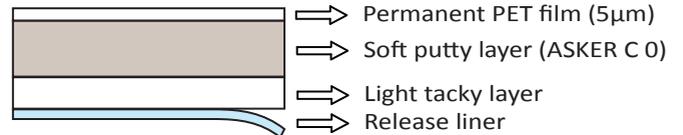


- Super compliant (ASKER C 0) material sandwiched between thin permanent PET film and light tacky layer for easy handling
- Thin permanent PET film provides mechanical strength and prevents dust and debris from getting trapped on the putty surface
- Because the CPVP is so soft, very little pressure is applied to components
- No concerns for siloxane outgassing or oil bleeding
- Operating temperature: -40 ~ 125 °C
- Custom die-cutting available upon request

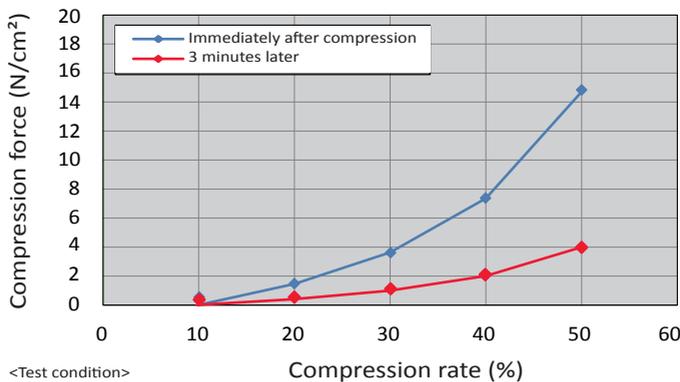
Properties

Property	Test Method	CPVP-F
Thickness (mm)	—	1.0, 2.0, 3.0, 4.0, 5.0, 6.0
Standard sheet size (mm)	—	210 x 510
Thermal Conductivity (W/m•K)	JIS R 2616 Hot-wire method	2.0
	ISO 22007-2 Hot-disc method	1.4
Hardness (ASKER C)	JIS K 7312	0 (putty layer)
Volume Resistivity ($\Omega \cdot \text{cm}$)	JIS K 6911	1.0×10^{11}
Flame Resistance	UL94	V-0
Operating Temperature (°C)	—	-40 ~ 125
Color	—	Dark Green / White

Cross-section view



Compression Force Test And Stress Relaxation (after 3 min)



<Test condition>
Specimen size: □10mm (t=4 mm)
Cross-head: 1mm / min
Compression plate material
Top: Stainless steel $\phi 28$ mm
Bottom: Gold plated copper $\phi 106$ mm

Test Results

Compression rate (%)	10%	20%	30%	40%	50%
Compression force (N)	0.5	1.7	3.8	7.6	15.6
Stress relaxation (N)	0.1	0.4	1.1	2.1	4.1

Comparison between Compression test vs Stress relaxation test

Compression test data shows the amount of applied force (N) at the moment the test sample is compressed. Stress relaxation data uses the same test set up as the compression test, but the data is taken after a certain amount of time has passed (such as three minutes). With our soft and compliant materials, the amount of force tends to ease over time. In the long-term, it is more accurate to consider the data from the stress relaxation test since the force is much less than initial compression force. However, in some cases where there are delicate components that can only accept up to a specified amount of force, the peak compression force from our compression test should be considered.



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.

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.