



# Thermal-Conductive Sheets TIMLIGHT (Soft Series)

The outstanding adhesiveness and compressibility of the FEATER Series enables realization of a dramatic reduction in thermal resistance at the mounting stage. In addition, taking full advantage of the flexibility of the base material, we have realized excellent contouring for uneven surfaces and superb cushioning performance, providing the product with a wide diversity of characteristics effective for design such as adhesion to components of differing heights, reduction of stress on PCBs and absorption of tolerances. The low-molecular siloxane content that causes problems such as contact faults in electric devices is no more than 70ppm, making it possible to use the product near contact points in devices such as switches.

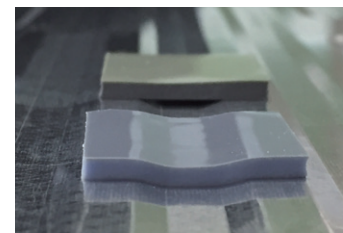


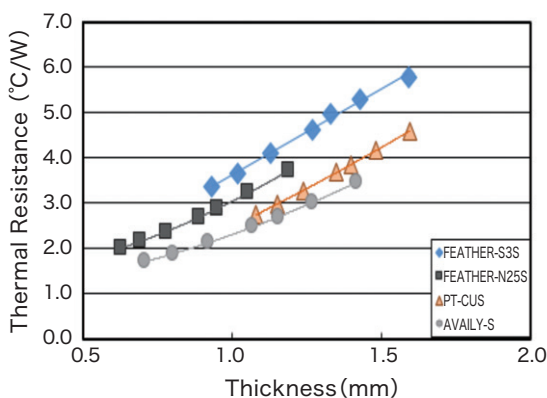
Illustration: Convex/concave contouring  
 Foreground: FEATHER-S3S Soft product  
 Background: General-purpose product

## Characteristics

Specifications	Grade Unit	FEATHER-S3S	FEATHER-E20	FEATHER-N25S	PT-CUS	AVAILY-S
Appearance	—					
Features	—	Single-sided adhesive, 2-layer Type	Double-sided adhesive, Single-layer Type	Single-sided adhesive, 2-layer Type	Single-sided adhesive, 2-layer Type	Single-sided adhesive, 2-layer Type
Thermal Conductivity <sup>※1</sup>	W/(m · K)	1.4	1.4	1.6	2.2	2.2
Hardness	Type E	5	20	9	12	10
	Type OO	20	45	25	30	25
Specific Gravity	—	1.8	1.8	2.0	2.85	2.85
Volume Resistance	$\Omega \cdot \text{cm}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$
Breakdown Strength	AC kV/mm	$\geq 10$	$\geq 10$	$\geq 10$	$\geq 10$	$\geq 10$
Flame Retardance	UL 94	V-0	V-0	V-0	Less than 3.0t : V-1 More than 3.0t : V-0	Less than 3.0t : V-1 More than 3.0t : V-0
Thickness	mm	0.5 ~	0.2 ~	0.5 ~	0.5 ~	0.5 ~
Operating Temperature Range	°C	-40 ~ 150	-40 ~ 150	-40 ~ 150	-40 ~ 150	-40 ~ 150

※1 ASTM D5470 (20psi load)

### Comparison of Thermal Resistance



Thermal resistance measurement conditions: 10mm×10mm×2mm samples measured by a thermal resistance measuring device manufactured by SEKISUI POLYMATECH, Heater calorific value: 4W

※ Numerical values shown in the graphs and table are actual measured, not product standard values.

### Comparison of Compressibility

