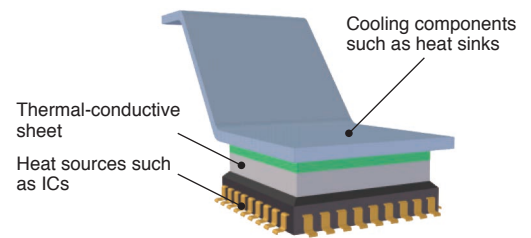




Thermal-Conductive Sheets TIMLIGHT Insulation Series

Silicone thermal conductive sheets feature high thermal conductivity with no loss of the outstanding heat resistance and electrical insulation properties of the base material, silicone, realized by contouring to heating elements utilizing the flexibility and adhesion of the sheet. The low-molecular siloxane content that causes problems such as contact faults in electronic devices is no more than 70ppm, making it possible to use the product near contact points in devices such as switches.

Example of Usage

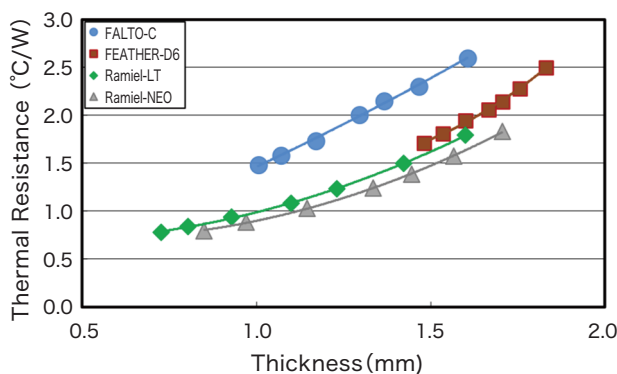


Characteristics

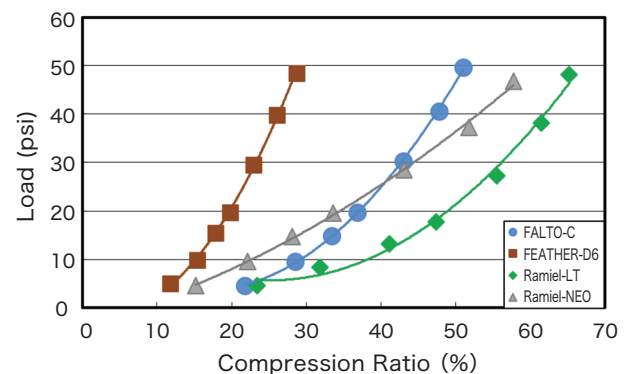
Specifications	Grade Unit	High-Conductivity Types				High-Performance Types	
		FALTO-C	FEATHER-D6	Ramiel-LT	Ramiel-NEO	PT-SS	HITS-Y
Appearance	—						
Features	—	Double-sided adhesive	Double-sided adhesive	Double-sided adhesive	Double-sided adhesive	Double-sided Non-adhesive	Double-sided Non-adhesive (Mesh inside)
Thermal Conductivity ^{※1}	W/(m · K)	3.6	4.5	5	6	1.2	1.2
Hardness	Type E	25	40	30	35	70	80
	Type OO	50	65	55	60	—	—
Specific Gravity	—	2.9	3.1	3.3	3.3	2.2	2.2
Volume Resistance	$\Omega \cdot \text{cm}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$	$\geq 1 \times 10^{10}$
Breakdown Strength	AC kV/mm	≥ 10	≥ 10	≥ 8	≥ 8	≥ 21	≥ 15
Flame Retardance	UL 94	V-0	V-0	V-0	V-0	V-0	V-0
Thickness	mm	1.0 ~	0.5 ~	1.0 ~	1.0 ~	0.2 ~	0.2 ~
Operating Temperature Range	°C	-40 ~ 150	-40 ~ 150	-40 ~ 130	-40 ~ 130	-40 ~ 150	-40 ~ 150

※1 ASTM D5470 (20psi load)

Comparison of Thermal Resistance



Comparison of Compressibility



Thermal resistance measurement conditions: 10mm×10mm×2mm samples measured by a thermal resistance measuring device manufactured by SEKISUI POLYMATECH, Heater calorific value: 25W

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