



Silicone-Free Thermal-Conductive Greases

Compared to conventional thermal conductive sheets, thermal conductive greases can be applied in a much thinner layer and offer extremely low thermal resistance. The outstanding handling properties make for ease of grease dispensation and coating onto substrates.

In addition, the use of non-silicone base oils eliminates problems such as contact faults caused by low-molecular siloxane.



Characteristics

Specifications	Grade		GA200	GA204	GA401	GA690
	Unit					
Thermal Conductivity*1	W/(m · K)		2.0	2.4	4.1	4.5
Appearance	—		White	White	Gray	Gray
Base Material	—		Ester oil	Ester oil	Ester oil	Ester oil
Viscosity	Pa · s		170	110	350	300
Specific Gravity	—		3.1	3.2	2.55	2.55
Minimum Thickness	μm		20	20	25	25
Solvent inside?	—		No	No	No	Yes
Operating Temperature	°C		-40 ~ 150	-40 ~ 150	-40 ~ 150	-40 ~ 150
Package Type	—		Can or Syringe	Can or Syringe	Can or Syringe	Can

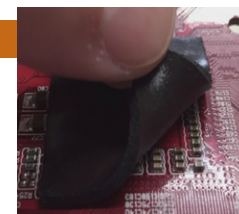
*1 Hot Wire Method

EM Absorbing Sheets

EM absorbing sheets are combined with the characteristics of a thermal-conductive sheets and electromagnetic wave absorbing effects.

It is possible to resolve noise issues by putting it on target spots.

The low-molecular siloxane content is no more than 70ppm, making possible to use the product near contact such as switches.

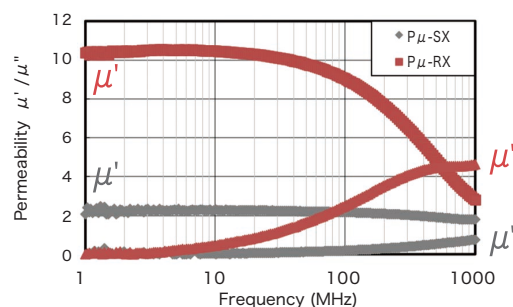


Characteristics

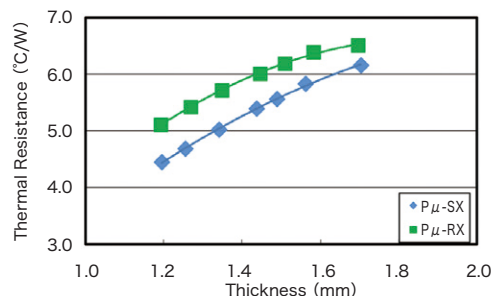
Specifications	Grade		Pμ-SX	Pμ-RX
	Unit			
Appearance	—			
Features	—		Double-sided adhesive	Double-sided adhesive
Thermal Conductivity*1	W/(m · K)		1.2	0.8
μ' (@1MHz)	—		2.2	10
μ" (@1000MHz)	—		0.7	4.4
Hardness	Type E		30	20
	Type OO		55	45
Specific Gravity	—		2.2	3.2
Volume Resistance	Ω · cm		≥1×10 ¹⁰	≥1×10 ¹⁰
Breakdown Strength	AC kV/mm		≥10	≥10
Flame Retardance	UL 94		V-0	V-0
Thickness	mm		0.5 ~	0.5 ~
Operating Temperature Range	°C		-40 ~ 120	-40 ~ 120

*1 ASTM D5470 (20psi load)

Magnetic Permeability Data



Comparison of Thermal Resistance



Thermal resistance measurement conditions: 10mmx10mmx2mm 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 values, not product standard values.