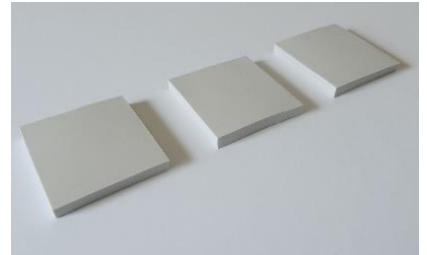


Thermal conductive rubber

Thermal conductive rubber is silicone base material which was developed for the purpose of heat dissipation of devices which has complex interface.



Features

➤ **Excellent flexibility & softness**

Heat dissipation can be very smooth by sticking to complex interfaces of devices firmly because of its excellent flexibility & softness

➤ **High thermal conductivity**

High thermal conductivity is achieved by dispersing a special additive.

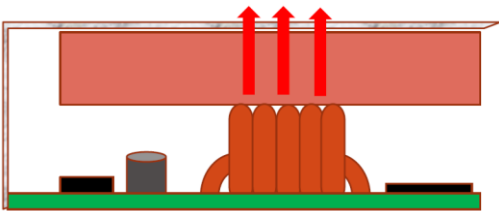
➤ **Great compressibility**

Thermal resistance can be minimized because of its high compressibility.

➤ **Flame retardant**

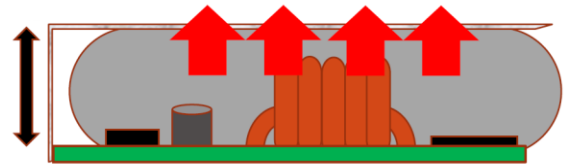
UL approved and passed Glow-Wire Ignitability Test (GWI)

Conventional material (hard)



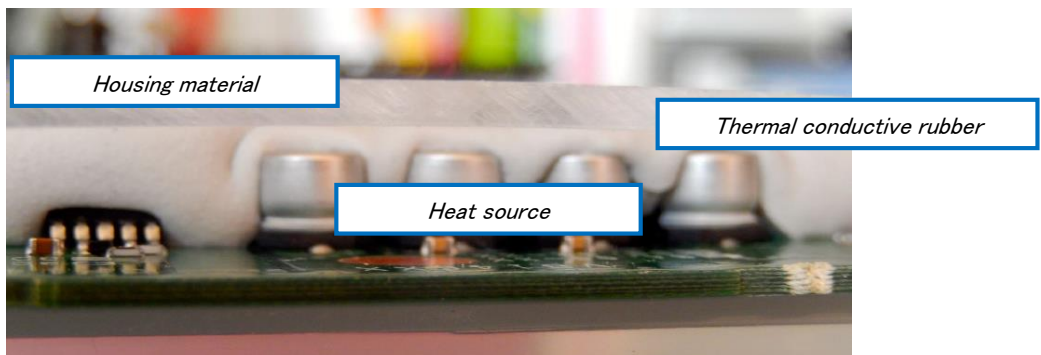
- The contact point is only the highest area of a device and there is gap (air) between the device and the thermal conductive material.
- The heat dissipation is not so good because thermal conductivity of air is very low.
- The thermal resistance is also higher because it is difficult to be compressed.

Thermal conductive rubber



- The thermal conductive rubber sticks to the all complex interface of a device because of its flexibility and softness.
- The heat dissipation is excellent because there is less gap (less air).
- The thermal resistance is lower because it can be thinner by being compressed.

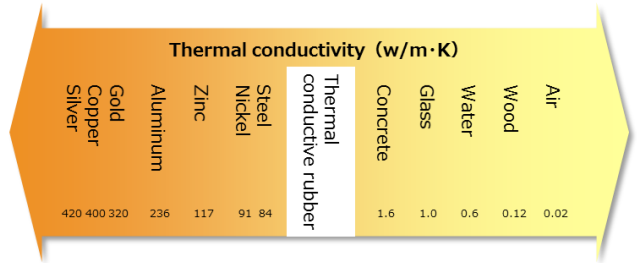
Example of use



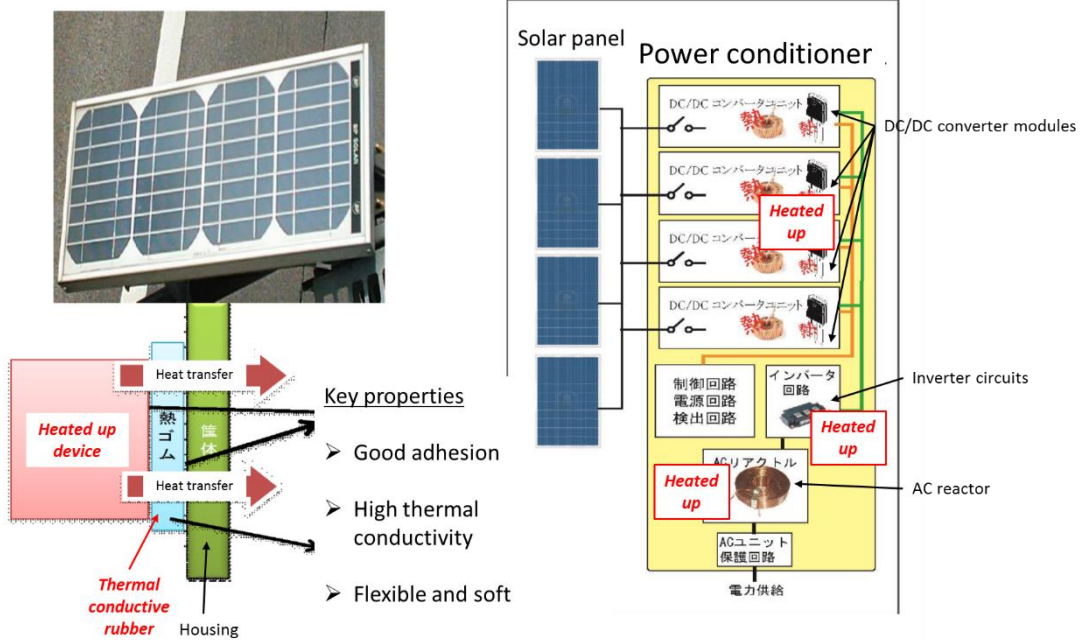
Thermal conductive rubber

Application

- PV Inverter (Power conditioner)
- Heat sink for LED light
- Camera modules
- High density integrated circuit



Example of application: PV Inverter (Power conditioner)



General properties

Property	Unit	R6M	R7M	R10M	R13M	R6CC
Electrical conductivity	-	Insulative	Insulative	Insulative	Insulative	Conductive
Characteristic	-	High resilience	High adhesive	Low siloxane	Low adhesive	High thermal conductivity
Color	-	Greyish white	Greyish white	Greyish white	Greyish white	Blackish brown
Thickness	mm	1~20	3~20	1~20	1~20	1~20
Tg	°C	-41	-41	-41	-40	-39
Thermal conductivity	W/m·K	2.4	2.1	2.1	2.1	Z direction : 8.2 XY direction : 11
Specific gravity	-	2.4	2.4	2.4	2.3	1.5
Hardness	ASKER C	5~	5~	~3	~3	5~
Elongation at break	%	160~	200~	180~	200~	170~
Surface resistance	Ω	>1E15	>1E15	>1E14	>1E15	100~
Tensile strength	N/mm ²	4.1	-	4.1	-	4.6
Dielectric breakdown strength	kV	27	21	21	21	-
Incombustibility	GWI	>675°C	>675°C	>675°C	>650°C	>675°C

* The above data are reference values and not guaranteed values.