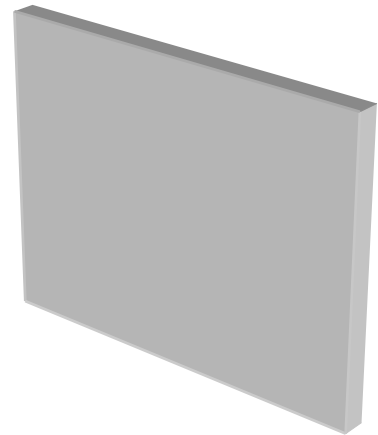


TM-SUJ Thermally Conductive Gap Filler

TM-SUJ

is an electrically insulating thermally conductive silicone gap filler. It is ideal for use in applications where thermal transfer over large gaps caused e.g by big tolerances or different stack up heights must be achieved. Due to the specific formulation and filling with ceramic particles the silicone elastomer has a good thermal conductivity. Through its extremely high softness and flexibility the material perfectly mates to irregular surfaces thus filling gaps at minimum pressure. By its use the total thermal resistance is minimised. The natural tackiness of the material allows for an easy and reliable pre-assembly.



Properties

- Extremely soft and compliant
- Thermal conductivity of 2.0 W/mK
- Operates at minimum pressures
- Extraordinary chemical resistance and longterm stability
- Residue-free removal after use
- Shock absorbing
- Easy mounting through natural self tackiness

Availability

- Sheet of:
 - 480 mm x 460 mm (1.0 mm)
 - 460 mm x 460 mm (2.0 mm)
 - 450 mm x 460 mm (3.0 mm)
- Tacky on both sides
- Tacky on one side
- Die cut parts
- Kiss cut parts on sheet

Application Examples

Thermal link of :

- SMD packages
- Through – hole vias
- Capacitors
- Electronic parts to heat pipes

For use in :

- Automotive applications
- Laptops
- Medicine engineering
- Industrial PCs

Technical Data

Part	TM-SUJ050	TM-SUJ100	TM-SUJ200	TM-SUJ300
Material	Ceramic filled silicone			
Colour	Grey			
Thickness [mm]	0,5	1,0	2,0	3,0
Hardness [Shore 00]	20	20	20	20
UL Flammability [UL 94]	V 0	V 0	V 0	V 0
RoHS Conformity [2002/95/EC]	Yes	Yes	Yes	Yes
Thermal Resistance @60 PSI @ Thickness [°C-inch ² /W (mm)]	0,6 (0,35)	1,0 (0,65)	1,4 (1,10)	1,7 (1,60)
Thermal Resistance @30 PSI @ Thickness [°C-inch ² /W (mm)]	0,7 (0,40)	1,2 (0,75)	1,8 (1,30)	2,10 (1,85)
Thermal Resistance @10 PSI @ Thickness [°C-inch ² /W (mm)]	0,8 (0,45)	1,5 (0,85)	2,3 (1,58)	2,8 (2,25)
Thermal Conductivity [W/mK]	2,0	2,0	2,0	2,0
Operating Temperature Range [°C]	-60 to +180	-60 to +180	-60 to +180	-60 to +180
Dielectric Strenght [kV/mm]	10	10	10	10
Volume Resistivity [Ohm-cm]	1,0 x 10 ¹¹	1,0 x 10 ¹¹	1,0 x 10 ¹¹	1,0 x 10 ¹¹
Dielectric Constant [@ 1MHz]	5	5	5	5

mm vs. N/cm² – R_{th} vs. N/cm²

