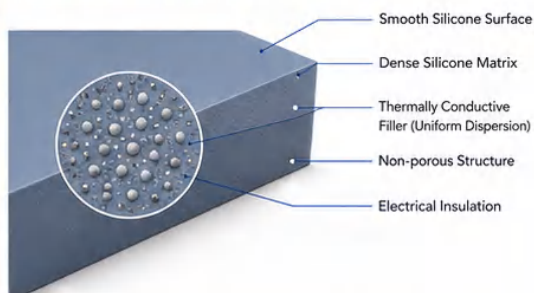




THERMAL CONDUCTIVE SILICONE SHEET (SOLID)

Heat Transfer • Gap Filling • Electrical Insulation

1. MATERIAL STRUCTURE



Dense, non-porous solid silicone material with high-performance thermal conductive fillers for efficient heat transfer.

2. KEY FEATURES

- High Thermal Conductivity
- Low Thermal Resistance
- Excellent Conformability
- Electrical Insulation
- Low Compression Set
- Wide Temperature Range
- Flame Retardant Options
- Custom Die Cutting



3. THICKNESS OPTIONS

Thickness (mm)	Tolerance (mm)
0.5	±0.05
1.0	±0.08
1.5	±0.10
2.0	±0.10
3.0	±0.15
4.0	±0.15
5.0	±0.20
Custom	Available

4. THERMAL CONDUCTIVITY

Grade	Thermal Conductivity W/m·K
TC-1.0	1.0
TC-1.5	1.5
TC-2.0	2.0
TC-3.0	3.0
TC-5.0	5.0
Custom	Custom Grade

5. TYPICAL PROPERTIES

Property	Typical Value
Color	Blue Gray
Hardness	20~50 Shore 00
Density	2.6 ~ 3.0 g/cm ³
Compression Set (22h @ 70°C)	≤ 20 %
Tensile Strength	≥ 1.0 MPa
Elongation	≥ 100 %
Thermal Impedance @ 1.0mm, 20 psi	≤ 0.6 °C·in ² /W

6. ELECTRICAL PROPERTIES

Property	Typical Value
Dielectric Strength	≥ 10 kV/mm
Breakdown Voltage	≥ 10 kV
Volume Resistivity	≥ 1.0×10 ¹³ Ω·cm
Surface Resistivity @ 1MHz	≥ 1.0×10 ¹² Ω
Dielectric Constant @ 1MHz	3.0 ~ 4.0
Dissipation Factor @ 1MHz	≤ 0.02

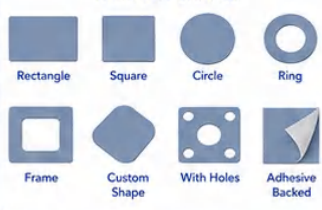
7. THERMAL PERFORMANCE

Property	Typical Value
Operating Temperature	-50°C ~ +200°C
Thermal Resistance @ 1.0mm, 20 psi	≤ 0.6 °C·in ² /W
Continuous Use	Stable
Heat Aging (200°C / 168h)	No cracking, No hardening

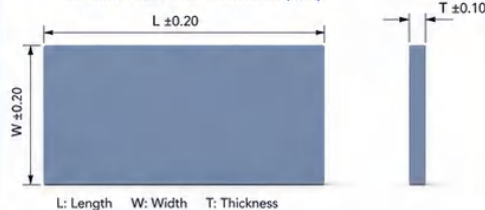
8. STANDARD SHEET DIMENSIONS

Size (mm)	Thickness Range (mm)
200 × 400	0.5 ~ 5.0
300 × 300	0.5 ~ 5.0
400 × 400	0.5 ~ 5.0
500 × 500	0.5 ~ 5.0
Custom Size	Available

9. DIE-CUT SHAPES



10. DIMENSIONAL DRAWING (mm)



11. TOLERANCES

Thickness Tolerance	±10 %
Length/Width Tolerance	±0.20 mm
Die-cut Tolerance	±0.20 mm
Hole Diameter Tolerance	±0.10 mm
Squareness	≤ 0.20 mm

12. TYPICAL APPLICATIONS



13. INSTALLATION EXAMPLE

