



PCB LAMINATION SILICONE PRESS CUSHION

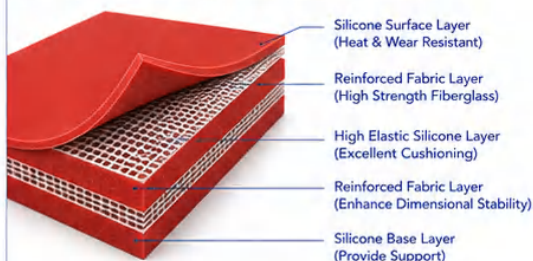
High Performance Cushioning Pad for PCB Lamination Press

1. PRODUCT OVERVIEW

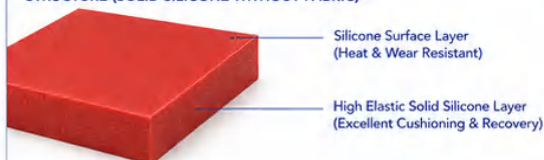
PCB Lamination Silicone Press Cushion is designed for multilayer PCB, FPC, IC substrate and CCL lamination processes. It provides uniform pressure distribution, excellent cushioning, high temperature resistance and long-term reliability under high pressure and vacuum environment.



2. STRUCTURE (OPTIONAL REINFORCED LAYER)



STRUCTURE (SOLID SILICONE WITHOUT FABRIC)



3. THICKNESS OPTIONS

Thickness	Tolerance
2 mm	±0.15 mm
3 mm	±0.15 mm
4 mm	±0.15 mm
5 mm	±0.20 mm
6 mm	±0.20 mm
8 mm	±0.20 mm
10 mm	±0.25 mm
Custom	Available

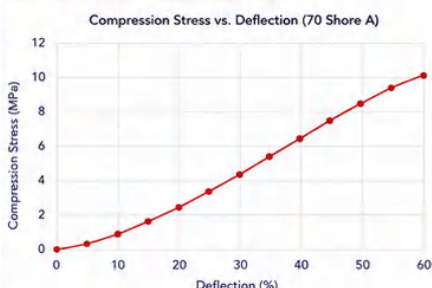
4. HARDNESS OPTIONS (SHORE A)

40 Shore A (Soft)
50 Shore A (Medium Soft)
60 Shore A (Medium)
70 Shore A (Firm)
Custom Hardness Available

5. TECHNICAL PROPERTIES

Property	Typical Value
Color	Red
Density	1.25 ~ 1.45 g/cm ³
Hardness (Shore A)	40 ~ 70
Tensile Strength	≥ 6.0 MPa
Elongation at Break	≥ 250 %
Compression Set (22h @ 70°C)	≤ 20 %
Compression Set (22h @ 200°C)	≤ 30 %
Tear Strength	≥ 20 kN/m
Operating Temperature	-60°C ~ +220°C (Short-term up to 250°C)
Thermal Conductivity	0.30 ~ 0.45 W/m·K
Volume Resistivity	≥ 1.0 × 10 ¹² Ω·cm
Dielectric Strength	≥ 15 kV/mm
Flame Retardant	UL94 V-0 (Optional)
Vacuum Compatibility	Excellent
Application Pressure	≤ 10 MPa

6. COMPRESSION PERFORMANCE



Compression Set (Typical)

Test Condition	Compression Set
22h @ 70°C	≤ 20 %
22h @ 150°C	≤ 25 %
22h @ 200°C	≤ 30 %

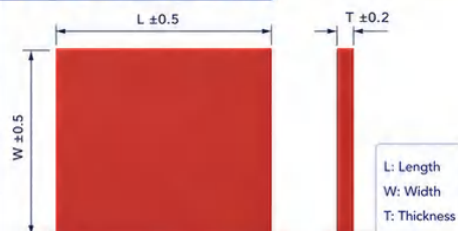
7. STANDARD SHEET DIMENSIONS

Size (mm)	Thickness Range	Tolerance
500 × 500	2 ~ 10 mm	±0.5 mm
600 × 600	2 ~ 10 mm	±0.5 mm
1000 × 1000	2 ~ 10 mm	±0.5 mm
1200 × 1200	2 ~ 10 mm	±0.5 mm
Custom Size	Available	

8. TYPICAL APPLICATIONS



9. DIMENSIONAL DRAWING (mm)



10. SURFACE & EDGE FINISH

- Smooth matte surface
- Flat and uniform
- Precision cut edges
- No bubbles, no inclusions
- Excellent dimensional stability



11. STORAGE

- Store in a cool, dry and ventilated place
- Keep away from direct sunlight and ozone
- Recommended temperature: 5°C ~ 30°C
- Shelf life: 24 months

12. LAMINATION STACK EXAMPLE

