

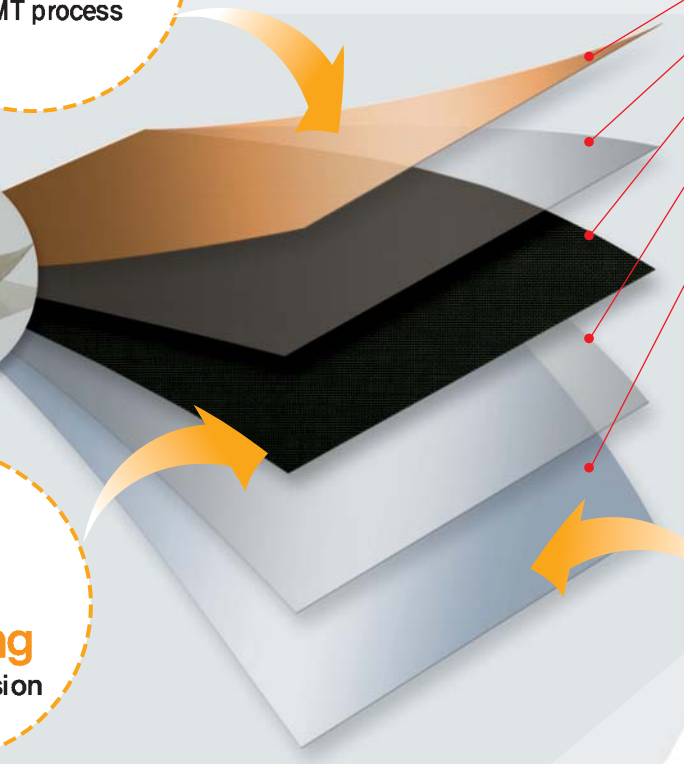
TACSIL F20

Special high temperature resistance silicone tape for FPCB Carrier in SMT process

Recycle 500times
in SMT process



Precise surface mounting
Stable adhesion



- Release film(PI)
- Reusable silicone compound
- PTFE impregnated fiber glass/PI film/ PTFE film
- Heat resistance silicone adhesive
- Release film(PET)

Excellent Dimensional stability
at 260°C

► **Benefit**

- Stable adhesion property about 500 cycles in SMT process
- Excellent dimensional stability at 260°C.
- Precise surface mounting
- Adhesion can be restored by easy cleaning
- Adhesion level of silicone compound can be selected
- Superior surface flatness allows whole area fixation

► **Main Application**

- SMT process of Flexible PCB
- SMT process of Thin rigid PCB
- Carrier of LCD assembly process
- Flip chip mounting process
- Various temporary fixing application

► **Supply**

- Sheet and Roll type product available

► **TECHNICAL DATA**

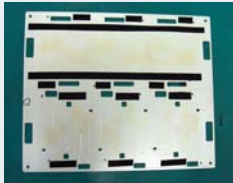
Product Type	Thickness (mm)	180°C Peel Adhesion of PI Film on Resin Surface (at room temperature, N/25mm)	Holding Power (PSA side, 2.2psi @ 260°C×2hr)	Tensile strength (N/50mm)	Type
Tacsil F20 HB, P20 HB	0.2 ±0.015	0.4 ±0.05	No creep, AF	> 500	Sheet, Roll
Tacsil F20 B, P20 B	0.2 ±0.015	0.3 ±0.05	No creep, AF	> 500	
Tacsil F20 MB, P20 MB	0.2 ±0.015	0.2 ±0.05	No creep, AF	> 500	
Tacsil F20 LB, P20 LB	0.2 ±0.015	0.1 ±0.05	No creep, AF	> 500	
Tacsil P10 HB	0.1±0.015	0.4 ±0.05	No creep, AF	> 200	
Tacsil F20 H2, H2B	0.2±0.015	1.3 ±0.2	No creep, AF	> 500	
Tacsil P10 H2, H2B	0.1±0.015	1.3 ±0.2	No creep, AF	>200	
Test Method	JIS Z 0237	JIS Z 0237	ASTM D3654	ASTM D3759	

The premium solution for FPC Carrier

TACSIL F20

User Guide

▶ How to apply in your SMT process



Tacsil on board



PCB on Tacsil



Fixing with rubber roller



SMT process



Reuse after occasional cleaning

1. Pre-ageing Durostone or Aluminum carrier.
2. Clean up the surface of carrier boards by alcohol.
3. Peel off the release liner of adhesive side with care.
4. Attach the adhesive side of Tacsil on boards.
5. Peel off the release liner of silicone side with care.
6. Put the FPC on the silicone surface.

▶ Cleaning cycle

To extend lifetime of Tacsil, appropriate surface cleaning is recommended when tack is not enough to hold FPCB.

▶ Cleaning method

- It is recommended to use cleaning roller to recover adhesion without any cleaning agent.



(Surface contamination)



(Remove contamination)



(Cleaned surface)

- Or you can clean the surface using soft cloth with ethyl alcohol ; ketones such as acetone, MEK or hydrocarbon solvents such as toluene, xylene are not allowed for cleaning agent.

▶ Converting

When you cut the Tacsil for your size, use cutting machines including a fodder chopper or die-cutting M/C for sharp edge trim.

▶ Carrier Board Materials

If you use Durostone or Aluminum board, then you need to do pre-ageing of the Durostone or Aluminum board itself before applying Tacsil to remove entrapped air in the board. Other material board do not need to do pre-ageing.

■ How to do pre-ageing

- Pre-ageing at 250°C for more than 3minutes or passing through SMT reflow chamber one cycle.
- For Durostone board, attach Tacsil on the Durostone within 2 hours after pre-ageing. For Aluminum board, attach Tacsil before the Aluminum board cools down (about 40°C).
- This pre-ageing process will help to prevent air bubble problems in reflow process.

▶ Storage conditions

- Be sure that storage condition is very important to perform extended life time (Standard conditions (23+/-2°C, 50+/-2%RH) in original packing is the best)
- Keep away the products from direct UV exposure and oils or any contaminations



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