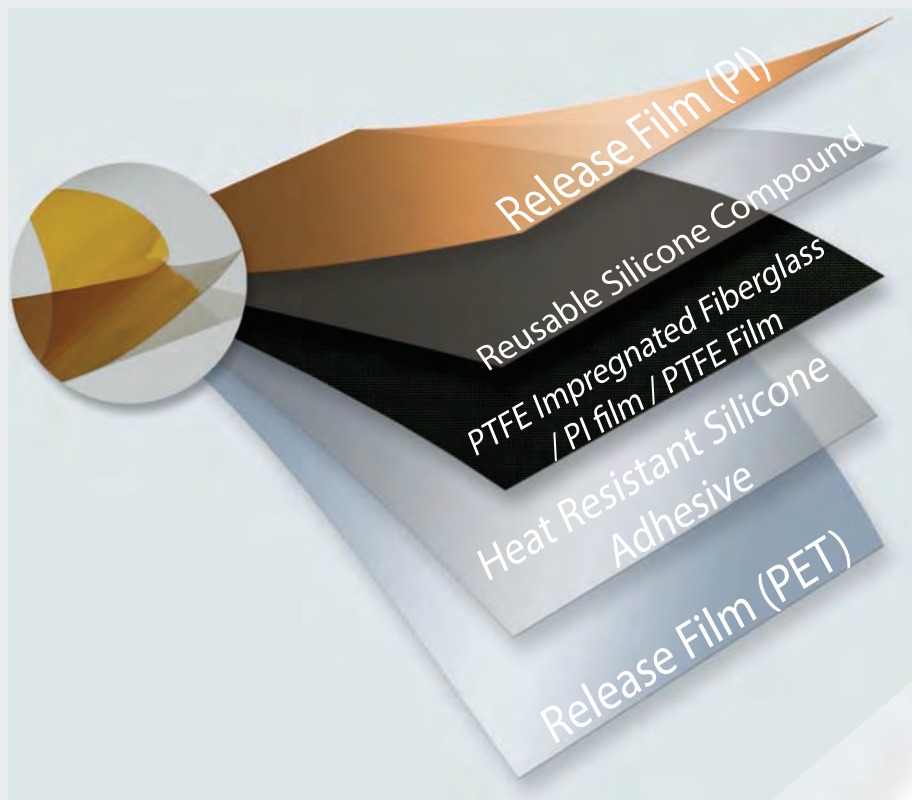


TACSIL F20

FPC Carrier Tape

TACSIL F20 offers a cost effective solution to FPC assembly over conventional methods. Polyimide tapes, resin coated plates and double sided tapes can increase costs, lower productivity, contaminate and / or damage flexible circuitry, reduce print accuracy and create environmental issues. With TACSIL F20, FPC assembly just got easier.



Benefits

- Performs more than 500 cycles in SMT processing
- Excellent dimensional stability at 260°C
- Precise surface mounting
- No adhesive residue
- Adhesion level of silicone compound can be selected
- Superior surface flatness allows whole area fixation
- Excellent die-cut properties
- Provides flexibility to carrier designers

Main Applications

- SMT processing of flexible PCBs
- SMT processing of thin rigid PCBs
- Carrier of LCD assemblies
- Flip chip mounting process
- Various temporary fixing applications

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, 2.2 psi @ 260°Cx 2hr)	Tensile Strength (N/50mm)
Tacsil F20 HB, P20 HB	0.2± 0.015	0.4± 0.05	No creep, AF	> 500
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 F10 H2, H2B	0.1± 0.015	1.3± 0.2	No creep, AF	> 200
Test Method	JIS Z 0237	JIS Z 0237	ASTM D 3654	ASTM D 3759

*Available in sheet or roll form

TACSIL F20 FPC Carrier Tape

How to apply TACSIL in SMT processing

If you use Durostone or Aluminum boards, you will need to pre-age the Durostone or Aluminum board itself before applying Tacsil in order to remove entrapped air within the board. Other material boards do not require pre-aging.

How to pre-age:

- Pre-age at 250°C for more than 3 minutes or pass through SMT reflow chamber for one cycle.
- For Durostone boards, attach Tacsil to the Durostone 2 hours after pre-aging. For aluminum boards, attach Tacsil before the Aluminum board cools below 40°C.

- 1) Pre-age Durostone or Aluminum carrier
- 2) Clean surface of carrier boards with alcohol
- 3) Carefully remove release liner from adhesive side
- 4) Attach adhesive side of Tacsil to board
- 5) Carefully remove release liner from silicone side
- 6) Put FPC on the silicone surface



PCB on Tacsil



Fixing with rubber roll



SMT process



Reuse after occasional cleaning

Cleaning

To extend the lifetime of Tacsil, appropriate surface cleaning is recommended when tack is not high enough to hold the FPCB. Use a cleaning roller to recover adhesion without cleaning agents.



(Surface contamination)



(Remove contamination)



(Cleaned surface)

- You can also clean the surface using a soft cloth with ethyl alcohol (ketones such as acetone, MEK or hydrocarbon solvents such as toluene and xylene are not recommended).

Storage Conditions

- Keep products away from direct UV exposure, oils and any other contaminants.
- Store at 23° +/- 2°C, 50 +/- 2% RH in original packaging

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