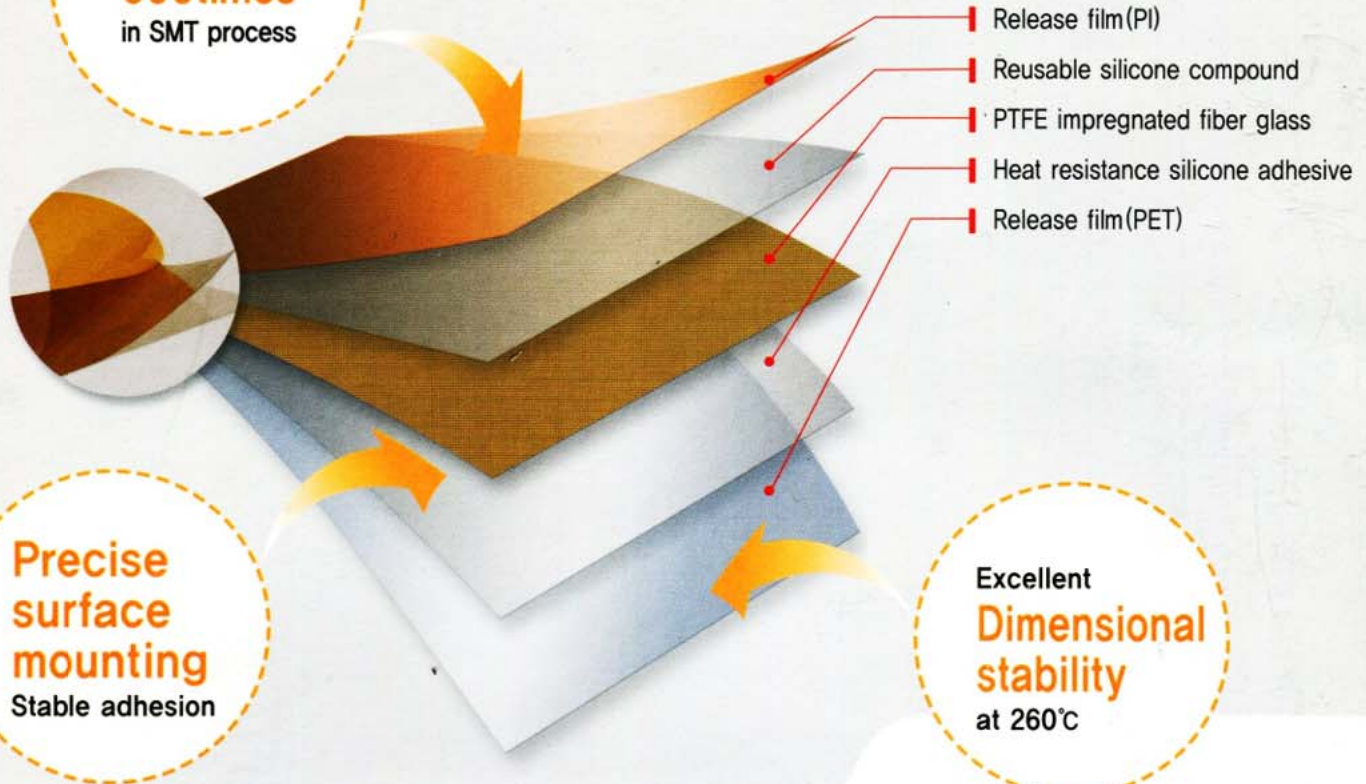


# TACSIL F20

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

Recycle  
500times  
in SMT process



Precise  
surface  
mounting  
Stable adhesion

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 (Ethanol)
- 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)
Tacsil F20-H	0.2±0.015	0.4±0.05	No creep, AF	> 500
Tacsil F20	0.2±0.015	0.3±0.05	No creep, AF	> 500
Tacsil F20-M	0.2±0.015	0.15±0.05	No creep, AF	> 500
Tacsil F20-L	0.2±0.015	0.1±0.05	No creep, AF	> 500
Tacsil F10-H	0.1±0.015	0.4±0.05	No creep, AF	> 200
Test Method	JIS Z 0237	JIS Z 0237	ASTM D3654	ASTM D3759

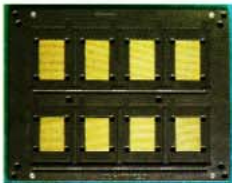
■ Molecular volatile siloxane contents : D4 to D9 species are volatile and generate SiO<sub>2</sub> or SiC which makes serious trouble like interrupting flow of electricity on the printed circuit. TACSIL contains about 200PPM, which is very low level of Siloxane.

The premium solution for FPC Carrier

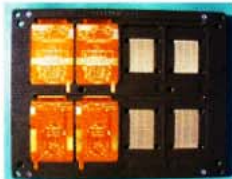
# TACSIL F20

## User Guide

### ▶ How to apply in your SMT process



Tacsil on board



PCB on Tacsil



Fixing with rubber roller



SMT process

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 materials

Ethyl alcohol is available as cleaning materials Ketones (including Acetone or MEK) or hydrocarbon solvents (including Toluene and Xylene) are not allowed.

### ▶ Cleaning method



Contaminated surface of Tacsil



Prepare a dustproof roller and Ethanol solution



Sweep the dirt on the Tacsil surface out using Ethanol immersed roller



Wait for complete drying of surface and do reuse in your process

### ▶ Converting

When you cut the Tacsil for your customer 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 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

## TACONIC

TACONIC ASIAN OPERATIONS  
Korea Taconic Company Ltd.  
Industrial Products Division  
702, Se-Sung Plaza, 366-4,  
Yatapdong, Bundangku,  
Sungnamsi, Kyungkido, Korea  
TEL +82-31-704-1855  
FAX +82-31-704-1857  
E-mail: sales@taconic.co.kr  
www.taconic.co.kr

TACONIC U.S. OPERATIONS  
Taconic  
Industrial Products Division  
136 Coonbrook Road,  
PO Box 69  
Petersburgh, NY 12138  
TEL +(1)-800-833-1805  
FAX +(1)-888-757-6245  
E-mail: info@4taconic.com  
www.4taconic.com

TACONIC EUROPEAN OPERATIONS  
Taconic international Ltd.  
Industrial Products Division  
Forest Park  
Mullingar, Country Westmeath  
Republic of Ireland  
TEL +(353)-44-38300  
FAX +(353)-44-38390  
E-mail: ipd@4taconic.com  
www.taconic-ipd.com

For more information, please contact: