

# CHR® C663/C680

## Paper Pressure Sensitive Adhesive Tape

**CHR C663** is manufactured from thick, high-temperature, laminated paper backing material with silicone pressure-sensitive adhesive. **C680** is manufactured from resin-impregnated paper backing material with high-temperature silicone blend pressure-sensitive adhesive.

## Features/Benefits

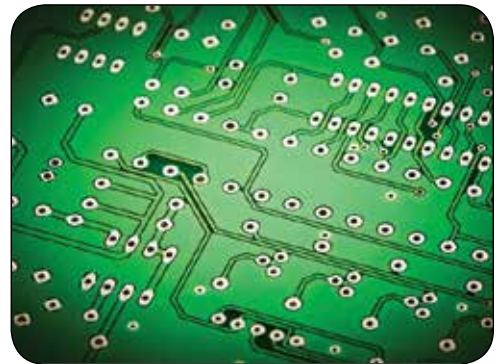
**CHR C663** offers easy application and an excellent conformability. Its adhesive protects during the rigorous HAL operation, yet removes cleanly, without splitting. **CHR C663** reduces damming at the solder/tape butt line, greatly reduces overall scrap, and is an effective mask in double wrap applications. **CHR C680's** backing paper provides easy handling and removal from roll, and can be torn by hand, without cutting blades. **C680** offers a resistance to flux chemicals and solder temperatures, removes cleanly, and is a great low cost replacement for high-temperature films. There is decreased static generation when tape is removed.

## Availability

Factory stock for **CHR C663** is in master rolls 33 m x 940 mm (36 yd x 37 in). Factory stock for **CHR C680** is in master rolls 55 m x 686 mm (60 yd x 27 in). Rolls can be slit in widths ranging from 6.35 mm to full width. **CHR C663** and **C680** are available without a liner.

## Applications

**CHR C663** is a gold finger/tab protection tape for both horizontal and vertical hot air levelling equipment. Suggested application procedure for **C663**: (1) tape the gold fingers, (2) cold roll the taped boards, (3) heat the taped boards up to 121°C < 5.0 minutes (optional), (4) cold roll the taped boards again, and then (5) run them through HAL processing. For boards hot air levelled more than once, **Saint-Gobain®** recommends repeating steps 3-5 prior to each run, and boards should run through the HAL process no longer than 24 hours after taping. Remove used tape from board once reaching room temperature. **CHR C680** is a new high-performance and cost-effective alternative for solder protection of printed circuit board connector fingers. The unique combination of resin-impregnated paper with high-temperature, silicone blend adhesive on one side provides high solder temperature resistance without the tape becoming brittle, resists attack from solvents that make up today's water soluble fluxes, and is easy to handle, apply and remove. For gold finger solder protection, **Saint-Gobain** recommends separate pieces of tape be applied to both sides of the board which should be pressed down with a pinch roller.



## CHR C663/C680 Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

| Product Number                               | C663                          | C680                         |
|--|-------------------------------|------------------------------|
| Backing Material                             | Paper                         | Paper                        |
| Adhesive Type                                | Silicone                      | Silicone                     |
| Total Thickness mm (mil)                     | 0.267 (10.5)                  | 0.152 (6.0)                  |
| Backing Thickness mm (mil)                   | 0.165 (7.5)                   | 0.102 (4.0)                  |
| Adhesive Thickness mm (mil)                  | 0.076 (3.0)                   | 0.051 (2.0)                  |
| Adhesion to Steel N/cm (oz/in)               | 6.6 (60)                      | 3.3 (30)                     |
| Tensile Strength N/cm (lb/in)                | 44 (25)                       | 44 (25)                      |
| Elongation (% at break)                      | -                             | 5                            |
| Operating Temperature °C (°F)                | -73 to +260<br>(-100 to +500) | -29 to +140<br>(-20 to +285) |
| Upper Temperature Limit<br>(273°C) (seconds) | 5                             | 5                            |
| Colour                                       | Red                           | Natural                      |



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