CLAIMS

1. A method of producing a print board including through holes that are filled with filling material, the method comprising:

a filling material filling process in which opening edge surfaces of the through holes on one surface side of the print board are covered such that the filling material does not come out from the through holes and the filling material is pushed into the through hole from another surface side of the print board to fill the through holes with the filling material; and

an auxiliary filling process that is performed after the filling material filling process and before the filing material is cured, the auxiliary filling process in which the openings of the through holes are uncovered and the filling material is supplied to the through holes again from the other surface side of the print board.

2. The method according to claim 1, wherein in the auxiliary filling process, the print board is positioned on a support jig that includes recesses in a portion corresponding to the through holes such that one surface of the print board is contacted with the support jig and the filling material is supplied from the other surface side of the print board.

3. The method according to claim 1 or claim 2, wherein in the auxiliary filling process, the filling material is supplied from the other surface side of the print board such that portions of the filling material protrude from the opening edge surfaces of the through holes on the one surface side.

4. The method according to any one of claims 1 to claim 3, further comprising a film attachment process in which a film including a base film and an adhesive layer disposed on a surface of the base film is attached to one surface of the print board to cover the openings of the through holes on the one surface side such that the filling material does not come out from the through holes, wherein

after the film attachment process, the print board is arranged on a flat jig having a flat surface in at least a portion corresponding to the through holes and the filling material filling process is performed, and

in the auxiliary filling process, a film separation process of separating the film is performed prior to supplying the filling material into the through holes.

5. The method according to any one of claims 1 to 5, wherein in the auxiliary filling material filling process, a screen mask is disposed on the other surface of the print board and a squeegee

is moved along the screen mask while supplying the filling material onto the screen mask, whereby the through holes are filled with the filling material through micro holes formed in the screen mask.

6. The method according to claim 5, wherein the filling material filling process is performed several times corresponding to several times of screen printing operations with different print conditions.

7. The method according to any one of claims 4 to 6, further comprising a hole forming process in which a pin having a sharp tip is pushed into a surface of the base film that is an opposite surface from the adhesive layer after the adhesive layer is formed on the base film, whereby air permeable micro holes are formed in the base film, wherein

after the hole forming process, the film attachment process is performed.