WHAT IS CLAIMED IS:

1. A peeling method of a resin sheet for peeling off the resin sheet from a plate-shaped object to which the resin sheet is stuck, the peeling method comprising:

a resin sheet heating step of heating an end part of the resin sheet of the plate-shaped object to which the resin sheet is stuck to turn up the resin sheet from the end part and form a peeling origin point; and

a resin sheet removal step of removing the resin sheet from the plate-shaped object through peeling off the resin sheet from the peeling origin point,

wherein

the resin sheet does not have an adhesive material layer, or

wherein

the resin sheet has a region that does not have an adhesive material layer in a region stuck to the plate-shaped object.

2. The peeling method of a resin sheet according to claim 1, wherein

the resin sheet is heated through the plate-shaped object in the resin sheet heating step.

3. The peeling method of a resin sheet according to claim 1, wherein the resin sheet heating step further

comprises:

placing the plate-shaped object on a heat table with a heat generating part; and

heating the resin sheet through the plate-shaped object with heat generated by the heat generating part.

4. The peeling method of a resin sheet according to claim 1, wherein the resin sheet heating step further comprises:

heating the resin sheet with hot wind generated by a hot wind dryer.

5. The peeling method of a resin sheet according to claim 1, wherein the resin sheet removal step further comprises:

gripping, by a gripping part of a removing unit, the peeling origin point of the resin sheet; and

moving the resin sheet toward the center of the plate-shaped object.

6. The peeling method of a resin sheet according to claim 1, wherein the resin sheet removal step further comprises:

supplying air, by an air jetting unit, between the plate-shaped object and the resin sheet.