





# **Pressure Measurement Film PRESCALE** Application Examples



Measured Object	Uses	Benefits
TEP TAN	Setting of vacuum Iaminator	Higher productivity Lower material loss
Vacuum laminator		

Industry	Solar cells (Photovoltaic Module Manufacturing)	

#### Checking that press pressure of vacuum laminator is even Applications

## Challenges

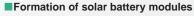
In the manufacture of solar cells, modules are formed by cementing the cells to the glass substrate with a vacuum laminator. If the press pressure is not even when this is done, defects will occur, such as damage to cells or wrinkles in the protective film. Although it has been possible to measure vacuum pressure, until now there has not been a way to directly measure the pressure actually applied to the cell.

## Measurement

## **Product used: Prescale (Extremely low pressure 4LW)**

Place Prescale (4LW) over the glass substrate and apply pressure under normal conditions. Check whether the pressure was applied uniformly by examining the resulting color of the Prescale (in the case of the thin film type).

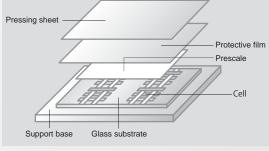
In addition, perform checks both with and without cells to assess the influence of cells on the pressure distribution.

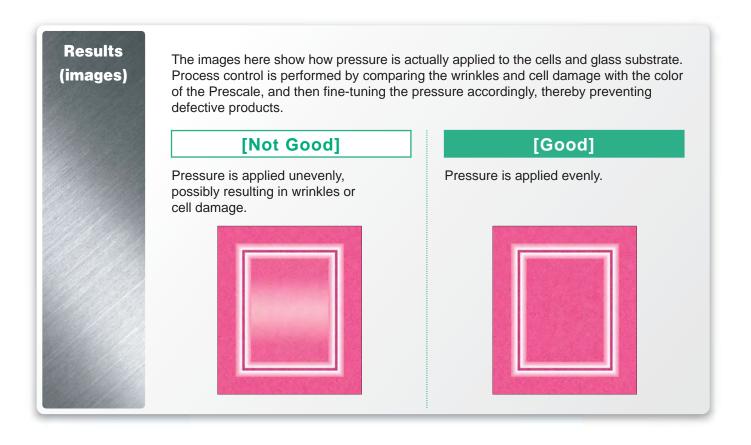


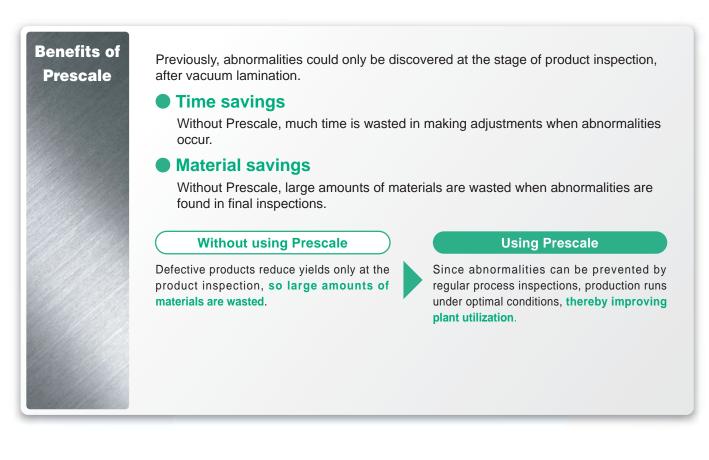
[Thin film type] After cells are formed on the glass substrate, the module is formed by using a vacuum laminator to cement the protective film with a resin, such as EVA. [Crystal type] The module is formed by cementing together the completed cells and protective film by using a vacuum laminator to apply a resin, such as EVA.



### Solar cell module







\*Note that the specifications and performance data described in this catalog are subject to change without notice for the purpose of improvement. Since images are used for illustration purposes, they may differ slightly from the actual product.

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