

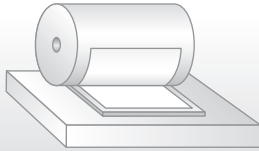
Pressure Measurement Film

PRESCALE

Application Examples

[No.20]

Measured Object



Film Attaching Equipment

Uses

To check pressure uniformity of film attaching equipment

Benefits

Quality improvement

Reduction in number of defects

Reduction in adjustment time

Industry

Touch panels and LCDs

Examples of relevant products

Smartphones
Tablet PCs



Applications

Checking drum (roller) pressure uniformity when attaching functional films (OCA, AG, AR, polarizing plates, etc.) to cover glass and touch panels

Challenges

When functional films such as OCA are attached to cover glass, the film is placed on the adsorption pad of the drum. The drum is then rotated and pressure is applied against the underlying stage, where the functional film is affixed to the cover glass. If the pressure balance during this process is incorrect, air bubbles, wrinkles, positional displacement and other errors may occur, causing product failures.

Measurement

Product used: Prescale (Ultra Low Pressure LLLW, Extreme Low Pressure 4LW)

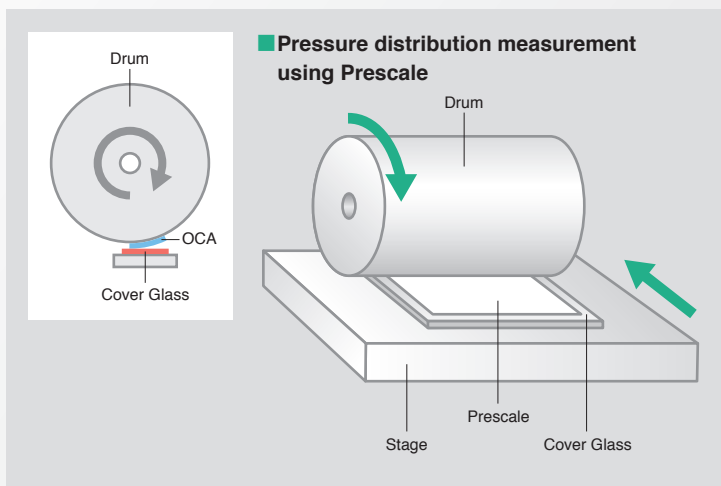
Prescale is placed between the cover glass and drum, then pressure is applied under normal conditions. The Prescale film is then removed and the color is evaluated to determine process performance. It is easy to evaluate if the stage and drum are balanced, thus determining the presence of dust or shavings on the drum.

Film attaching equipment



OCA attaching equipment
Photo provided by FUK Co., Ltd.

Attaching section



Results (images)

[Defective]

Pressure is unevenly applied.



[Acceptable]

Pressure balance is even, providing a good result.



Benefits of Prescale

● Quality loss prevention

Quality problems are easily detectable and output yield is improved.

● Time loss prevention

Pressure uniformity can be quickly checked during design and maintenance.

Without using Prescale

When Prescale is not used, attaching results must be evaluated. Adjustments require repeated trial and error to resolve defects. **This process will result in material loss and increase design adjustment time.**

With Prescale

Pressure distributions are validated during actual use conditions. By checking pressure uniformity in advance, **quality improvements and design adjustment time reductions can be achieved.**

*Note the specifications and performance data described in this catalog are subject to change without notice for the purpose of improvement. The images provided are used for illustration purposes only and may differ slightly from actual products.

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<http://www.fujifilm.com/products/prescale/>