**Pressure Measurement Film**

**PRESCALE**

**Application Examples**

**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

**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.

**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.

**Examples of relevant products**
- Smartphones
- Tablet PCs

**Smartphone attaching equipment**

**Film attaching equipment**

**Attaching section**

**Pressure distribution measurement 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.

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

**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**

Pressure is unevenly applied.

**With Prescale**

Pressure balance is even, providing a good result.

*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.*