

Introduction of Prescale for High Temperature

2021 October
Fujifilm Corporation.

PRESCALE

Specification

Product size	270mm× 6m
Pressure range	0.5MPa~2.5MPa / 73~363 psi
Recommended heating temperature	180°C~220°C / 356~428°F (double-sided heating)
Film type	Two-sheet type



Feature




<Feature>

- Reduce heat-induced color development in unpressurized area or overcolor development.
- Reduce film deformation by heat.

<Benefit>

- Enables highly-accurate pressure distribution measurement under conditions closer to actual manufacturing conditions.
- Reduces required heating and cooling time for manufacturing equipment, contributing to improved productivity.
- No need to use the heat-proof sheet if the customer originally using one.
*Only when used under recommended temperature.

Comparison with standard Prescale (1)

Heat Pressing condition	Standard Prescale LLW	Prescale for High Temperature
-210°C (double-sided heating) -0.3 MPa -120 sec.		
-210°C (double-sided heating) -2.5MPa -120 sec.	—	

Standard Prescale:

- Color develops in pressed area even the pressure was lower than the pressure range for LLW (0.5~2.5MPa).
- Color also develops where it was not pressed because of the heat.

Prescale for High Temperature:

- Almost no color development when pressure is lower than the pressure range for LLW.
- No color development in unpressurized area.

Comparison with standard Prescale (2)

Heating condition	Standard Prescale LLW	Prescale for High Temperature (LLW)
-210°C -120 sec		

Standard Prescale:

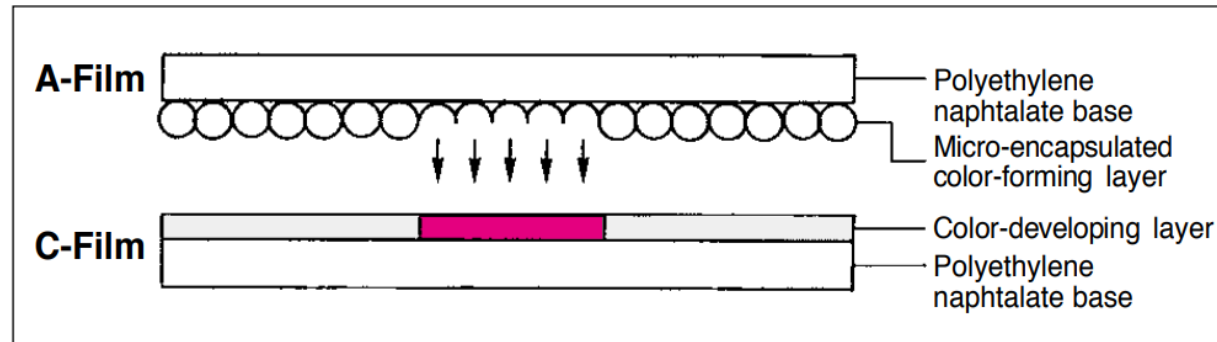
- Film(PET film) deforms because of heat.

Prescale for High Temperature:

- Almost no film(PEN film) deformation .

Structure and Principle

<Structure>



<Principle>

The microcapsule on the A-film breaks because of the pressure and the color-developing material absorbs to color-forming material, which leads the chemical react to occur.

Estimated industry and application

Industry	Application
Printed circuit board (PCB)	Heat laminate press
Battery	Heat seal
Display	Bonding
Machines	Bonding machine, Packaging machine, Heat sealing machine
Package (Food/Pharmaceutical)	Heat sealing

Promotion tool

1. Official website

- New page will be made by FTYO.

2. Brochure

- Independent brochure made by FTYO.

3. Samples

- 10cm × 13cm



4. Flyer

- An advertising leaflet (B5) will be included in the product box for a certain period of time.