



## Pressure Measurement Film PRESCALE Application Examples



Measured Object	Uses	Benefits
Electrophotographic heat fixing parts	To check pressure distribution when heat fixing	Higher quality Higher productivity

### Manufacturing/maintenance services of office equipment Industry

Applications

### Maintaining high rendering quality by ensuring pressure uniformity during heat fixing

# Challenges

Measure-

ment

In electrophotography, a toner image (Figs. 1-3 below) is first formed on the photoreceptor and then transferred to paper (Fig. 4). Marking is then completed using heat to fix the toner on the paper (Fig. 5). Heat fixing is typically applied by passing a piece of paper between a heating roll and a pressurizing roll, but if the pressure between the two rolls is not uniform, defective fixing or distortions in the paper may occur. In addition, the heating or pressurizing roll may become significantly worn after extensive use, thereby causing mechanical vibrations that alter the initial conditions of the device, resulting again in fixing defects or paper distortions.

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



Prescale is inserted between the heating and pressurizing roll

Application 1 Without rotating the rolls, the Prescale is nipped and pressure uniformity is checked

according to the width of the colored lines. Application 2 While rotating the rolls to pass the Prescale between the heating and pressurizing rolls,

pressure distribution is checked for nip width and length. Pressure distribution can also be checked while rotating the rolls at the actual temperature used for fixing.





\*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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