PRESCALE

Pressure measurement film
ultra extreme low two sheet type
0.87 ~ 7.3psi (0.006 ~ 0.05MPa)

Bringing pressure measurement to the next stage

Ultra extreme low (5LW)
0.87 ~ 7.3psi (0.006 ~ 0.05MPa)

Ultra super low pressure (LLLW)
29 ~ 87psi (0.2 ~ 0.6MPa)

Super low pressure (LLW)
29 ~ 87psi (0.2 ~ 0.6MPa)

Low pressure (LW)
1450 ~ 7250psi (10 ~ 50MPa)

Medium pressure (MW)
9800 ~ 18850psi (65 ~ 130MPa)

High pressure (HS)
18850 ~ 43500psi (130 ~ 300MPa)

Super high pressure (HHS)
14500 ~ 36300psi (100 ~ 250MPa)

Unit: psi=6895Pa 1MPa=10.2kgf/cm²
Film type W: two sheet  S: Mono-sheet
The only tool to measure pressure visually

Can check the surface pressure distribution easily
Can measure in short time at first sight
Can get the pressure in numerical form by analyze system
Saves cost as no special equipment are required

Usages

- Smartphone
  Can detect the flaw in the assembly process by the dispersion of color density

- Composite device
  Can detect the flaw of nip rolls by the dispersion of color density

How to use

1. Cut two films (A, C) into necessary size.
2. Cut off the rubbers of both ends of A film.
3. Face rough side of both films each other.
4. Insert cut-Prescale between the pressure surfaces of the measuring product and apply the pressure.
5. Take off the Prescale and check its distribution.

[cautions] Need to be careful when handling 5LW. Please do not touch carelessly or rub the color-forming surface of A film or bend the films.

Technology (two sheet type)

Composed of two kinds of films: A-film and C-film
- A-film: Base material (PET base) coated with a color-forming material (microcapsules)
- C-film: Base material (PET base) coated with a color-developing material

The coated sides of each film (color-forming and color-developing) must face each other. These are the sides with the matt finish. When pressure is applied, the microcapsules are broken and the color-forming material transfers to the color-developing material and reacts, thereby generating a red color.

Specification

<table>
<thead>
<tr>
<th>Film type</th>
<th>two sheet type</th>
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</thead>
<tbody>
<tr>
<td>Film size</td>
<td>310mm × 2m</td>
</tr>
<tr>
<td>Pressure range</td>
<td>0.87<del>7.3psi (0.006</del>0.05MPa)</td>
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<tr>
<td>Accuracy</td>
<td>±10% or less (when measured at 23℃, 65%RH)</td>
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<tr>
<td>Recommend temper</td>
<td>15℃~30℃</td>
</tr>
<tr>
<td>Recommend humidity</td>
<td>20%RH~75%RH</td>
</tr>
</tbody>
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Specifications and performance capabilities are subject to change without notice.