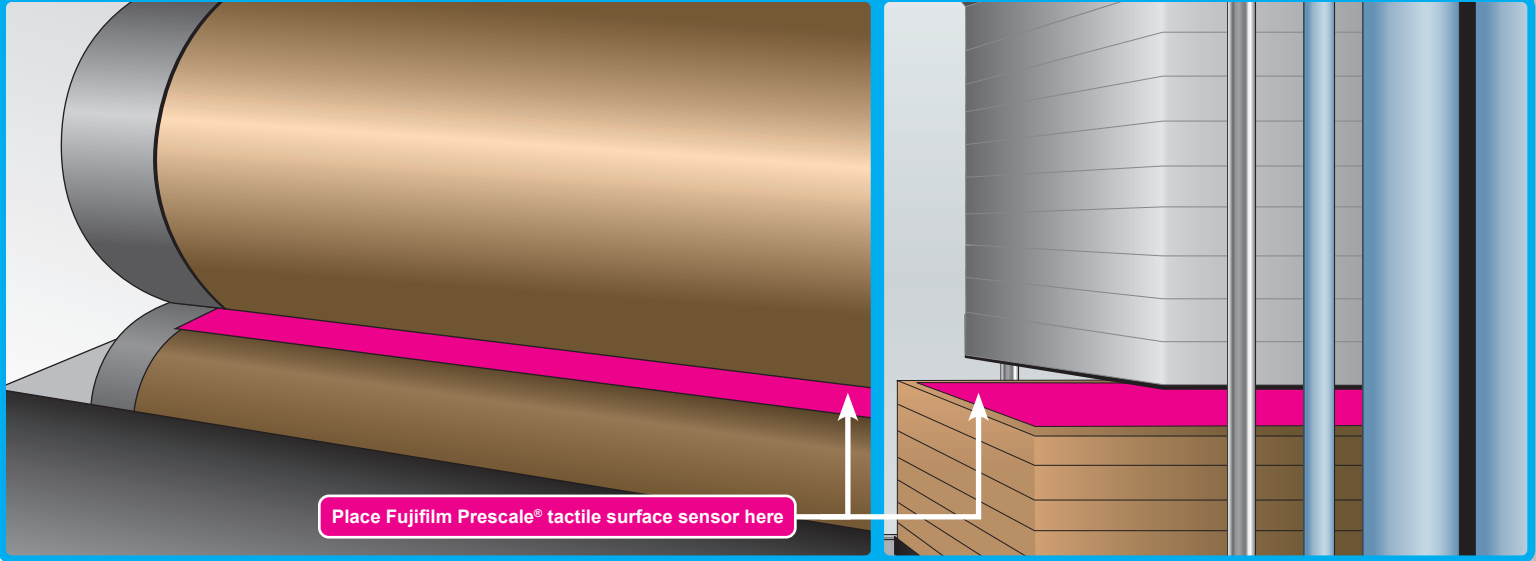


# TACTILE PRESSURE INDICATING SENSOR FILM

## Application: Composites

Fujifilm Prescale® is a unique, affordable and easy to use tool that reveals the distribution and magnitude of surface contact pressure in your prepreg rollers and composites lamination press.

### FUJIFILM PRESCALE® IN RESIN METERING OF PREPREG AND COMPOSITE SHEET PRODUCTION



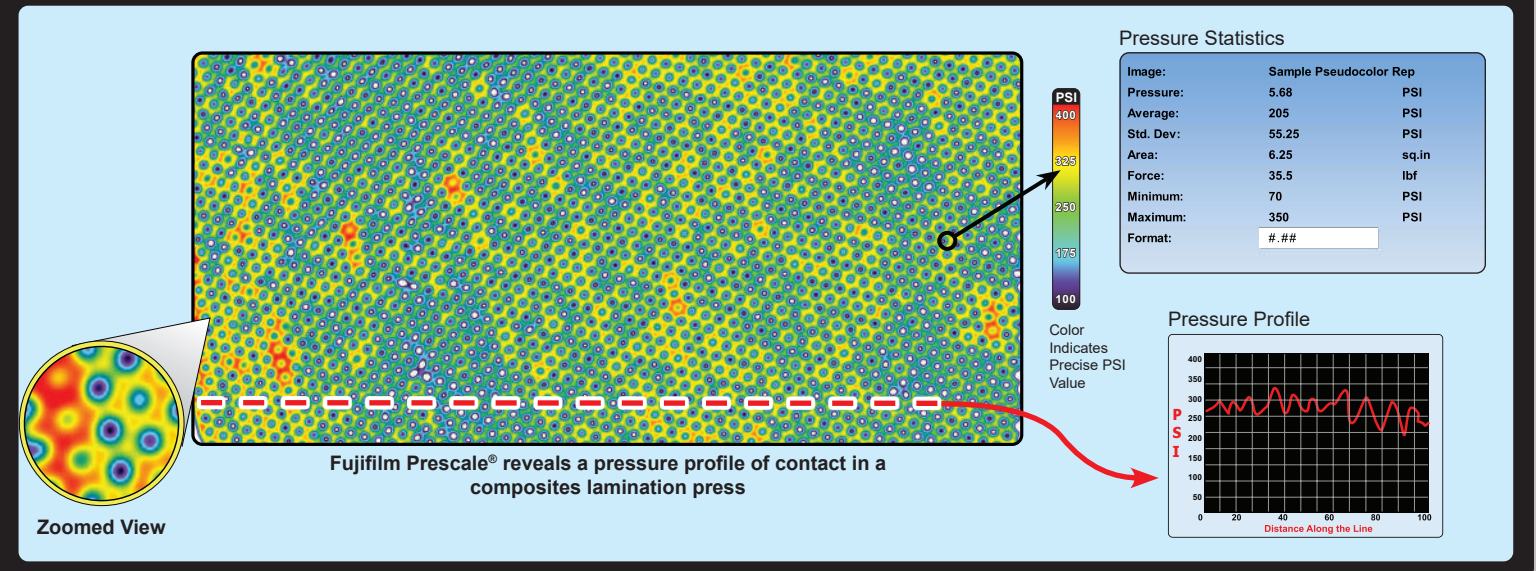
### BENEFITS

- ▶ Properly align rollers to ensure uniform resin application and fabric wet-out
- ▶ Detect and correct lamination press uniformity issues to reduce off-spec fiber content
- ▶ Prevent defects such as resin content inconsistency in the resin metering stage

Fujifilm Prescale® sensor reveals both **pressure distribution and magnitude** between contacting surfaces in a dramatic surface “map.”

When placed in your nip rollers or platens of your lamination press, Fujifilm Prescale® instantaneously and permanently changes color in direct proportion to the pressure being applied. Conceptually similar to Litmus paper, the color Fujifilm Prescale® turns reveals the precise PSI level.

### Fujifilm Prescale® captures and reveals a complete pressure profile “map”

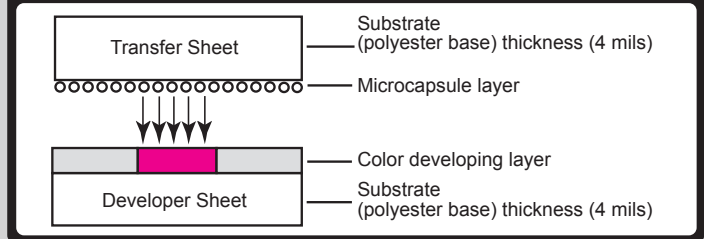


# Tactile Pressure Indicating Sensor Film

## Accurate, Cost-effective, Easy to Employ Pressure Mapping Technology

Have you ever needed to evaluate pressure or force between two touching or mating surfaces? Previously, your only alternatives were strain gauges and load cells, that are both time consuming and difficult to interface. Now with the advent of our disposable one-time use pressure film, Fujifilm Prescale®, evaluating surface contact pressure distribution and magnitude is accurate, quick and highly economical.

### Cross sectional view of Fujifilm Prescale® film



## 8 Sensitivities To Accommodate A Wide Range Of Pressures

| Film Type         | Pressure Range      |                                     |
|-------------------|---------------------|-------------------------------------|
| ULTRA EXTREME LOW | 0.87 - 7.3 PSI      | (0.06 - 0.51 kg/cm <sup>2</sup> )   |
| EXTREME LOW       | 7.2 - 28 PSI        | (0.5 - 2 kg/cm <sup>2</sup> )       |
| ULTRA LOW         | 28 - 85 PSI         | (2 - 6 kg/cm <sup>2</sup> )         |
| SUPER LOW         | 70 - 350 PSI        | (5 - 25 kg/cm <sup>2</sup> )        |
| LOW               | 350 - 1,400 PSI     | (25 - 100 kg/cm <sup>2</sup> )      |
| MEDIUM            | 1,400 - 7,100 PSI   | (100 - 500 kg/cm <sup>2</sup> )     |
| HIGH              | 7,100 - 18,500 PSI  | (500 - 1,300 kg/cm <sup>2</sup> )   |
| SUPER HIGH        | 18,500 - 43,200 PSI | (1,300 - 3,000 kg/cm <sup>2</sup> ) |

### Industry Applications

|                    |  |
|--------------------|--|
| <b>AEROSPACE</b>   | Composite Layups, Material Testing, Bolted Joints                    |
| <b>AUTOMOTIVE</b>  | Gasketing, Impacts, Fuel Cell Stacking, Clutches, Brakes, Tire Tread |
| <b>ELECTRONICS</b> | Heat Sinks, LCD Bonding, PCB Lamination, Wafer Bonding/Polishing     |
| <b>MEDICAL</b>     | Clamping, Gait Analysis, Ergonomics, Orthotics and Prosthetics       |

|                              |   |
|------------------------------|---|
| <b>PACKAGING</b>             | Heat Sealing, Converting                                    |
| <b>PLASTICS</b>              | Lamination Press, Die Extrusion Injection Molding, Stamping |
| <b>PRINTING/ PAPERMAKING</b> | Nip Impressions   |

### Physical Specifications

|                              |  |                   |   |
|------------------------------|--|-------------------|---|
| <b>OPERATING TEMPERATURE</b> | 68°F to 95°F (20°C - 35°C)<br>Extreme low pressure (4LW):<br>Super high pressure (HHS): 15°C - 30°C          | <b>GAUGE</b>      | 4, 8, or 20 mils  |
| <b>HUMIDITY RANGE</b>        | 35% RH - 80% RH<br>Extreme low pressure (4LW): 20% RH - 75% RH<br>Super high pressure (HHS): 35% RH - 80% RH | <b>SUBSTRATE</b>  | Polyethylene Terephthalate (PET)                        |
| <b>SPATIAL RESOLUTION</b>    | 5 to 15 microns  | <b>ACCURACY</b>   | ±10% or less (measured by densitometer at 23°C, 65% RH) |
|                              |  | <b>SHELF LIFE</b> | 2 years   |

MSDS Available Upon Request.



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