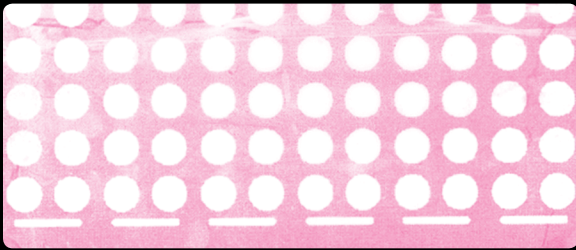


HEAT SEAL



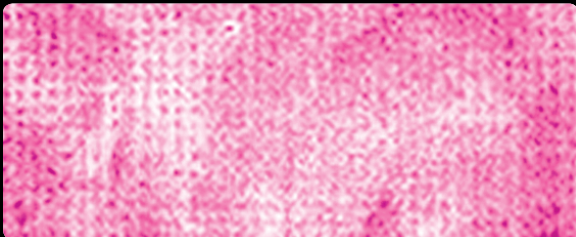
Non-uniform Platen Contact / Parallelism Issues

GASKETED INTERFACE



Uneven / Insufficient Loading

HEAT SINK



Insufficient / Problematic Thermal Transfer

LAMINATION/PRESS



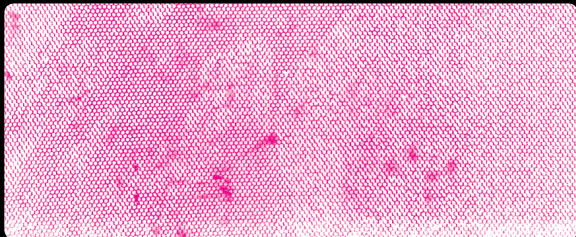
Platen Planarity Problems

NIP IMPRESSION



Roller / Nip Defects, Parallelism / Crown Correction Problems

COMPOSITE LAYUP



Registration / Parallelism / Planarity Issues

PRESCALE

Tactile Pressure Indicating Sensor Film

Fujifilm Prescale® is a unique, affordable and easy to use tool that reveals the distribution and magnitude of pressure between any two contacting, mating or impacting surfaces.

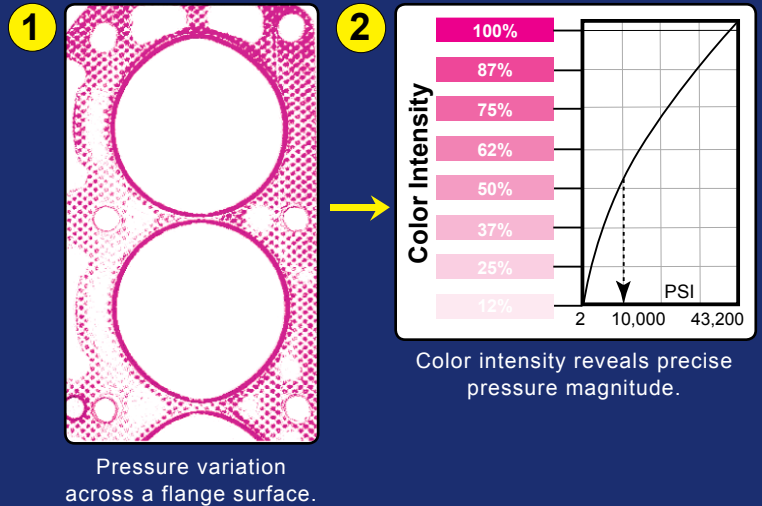
How It Works

Fujifilm Prescale® is a mylar based film that contains a layer of tiny microcapsules. The application of force upon the film causes the microcapsules to rupture, producing an instantaneous and permanent high resolution "topographical" image of pressure variation across the contact area.

Simply place Fujifilm Prescale® pressure indicating sensor film between any two surfaces that touch, mate or impact. Apply pressure, remove it and immediately the film reveals the pressure distribution profile that occurred between the two surfaces. Conceptually similar to Litmus paper, the color intensity of Fujifilm Prescale® is directly related to the amount of pressure applied to it. The greater the pressure, the more intense the color.

Fujifilm Prescale® is extremely thin (4 to 8 mils) which enables it to conform to curved surfaces. It is ideal for invasive intolerant environments and tight spaces not accessible to conventional electronic transducers.

How to Interpret Fujifilm Prescale® Impressions



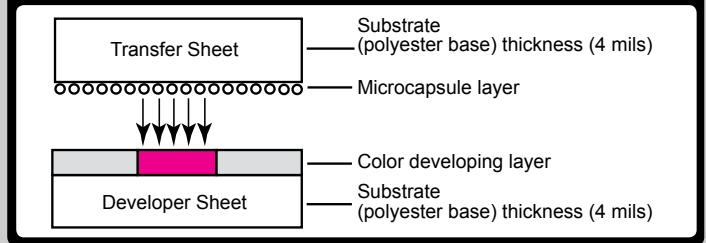
Like Litmus paper, the color that Fujifilm Prescale® sensor film turns has significance. It is directly related to PSI (kg/cm²), and can be visually compared to our color correlation chart or scanned and quantified with one of our optional optical imaging systems.

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



7 Sensitivities To Accommodate A Wide Range Of Pressures

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

Industry Applications

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

PACKAGING	Heat Sealing, Converting
PLASTICS	Lamination Press, Die Extrusion Injection Molding, Stamping
PRINTING/PAPERMAKING	Nip Impressions

Physical Specifications

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

MSDS Available Upon Request.



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