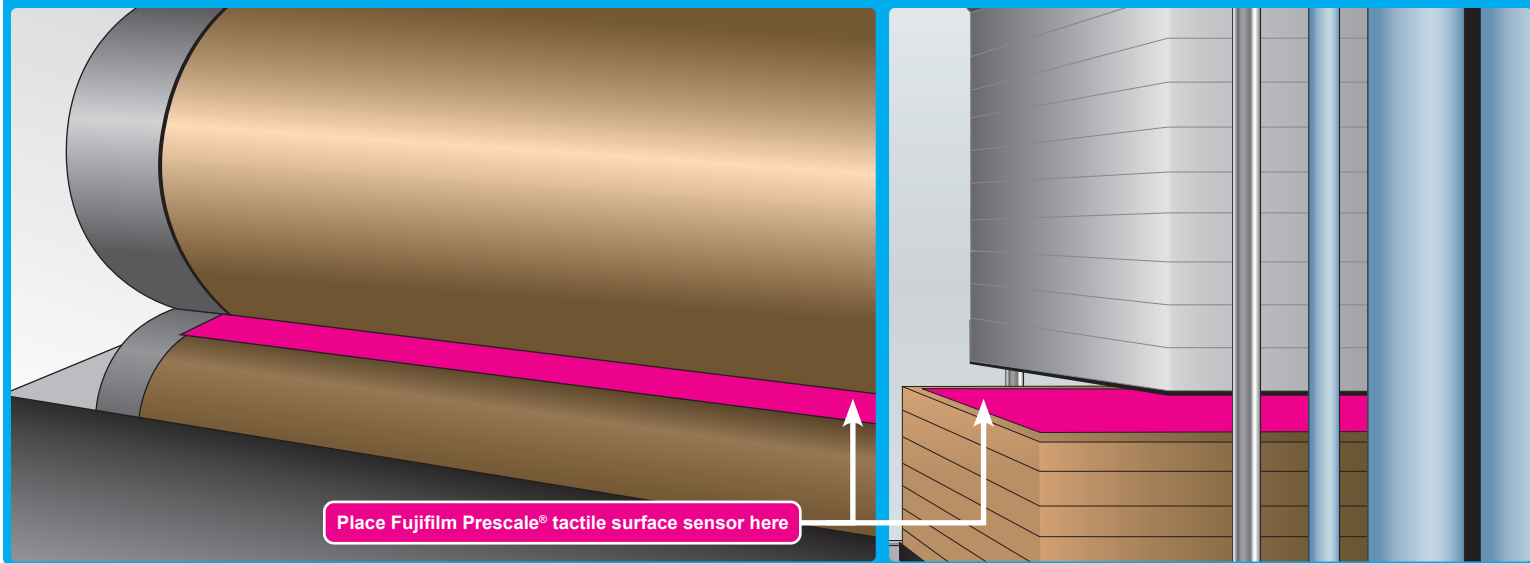


TACTILE PRESSURE INDICATING SENSOR FILM

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



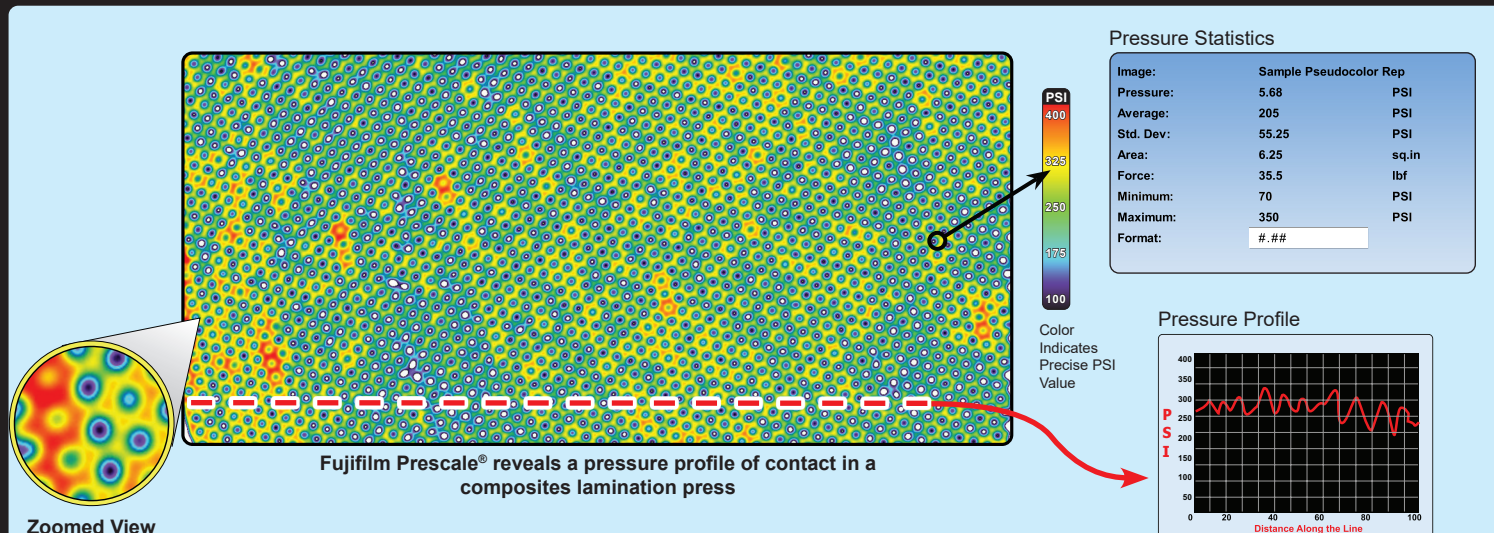
BENEFITS

- ▶ 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"

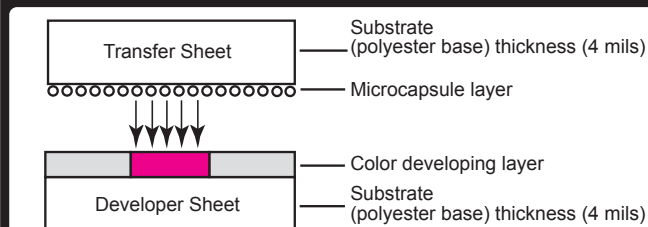


Tactile Pressure Indicating Sensor Film

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 ²)
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.

TACTILE PRESSURE EXPERTS



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