

TACTILE PRESSURE INDICATING SENSOR FILM

Application: Wafer Polishing

Fujifilm Prescale® is a unique, affordable and easy to use tool that reveals the distribution and magnitude of pressure in your wafer polisher.

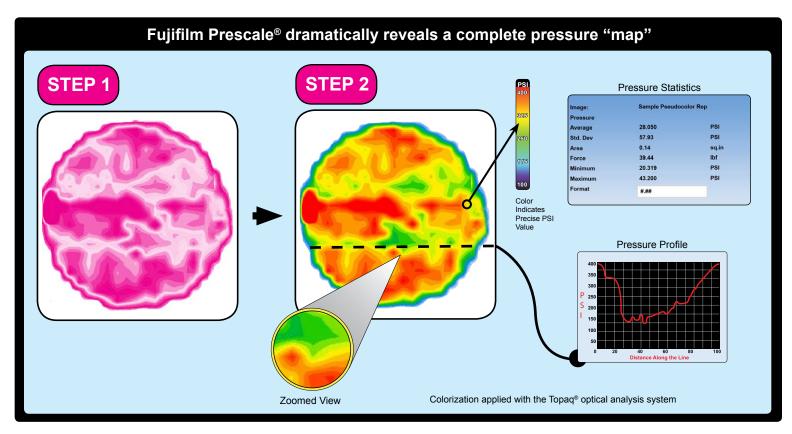
Place Fujifilm Prescale® Sensor Film Here

BENEFITS

- Ensures uniform distribution of pressure
- Provides better control of wafer thicknesses and variation
- Promotes optimal regulation of grind rate through polishing
- Prevents chips and other surface defects
- Provides permanent record for calibration and control

Fujifilm Prescale[®] is used to reveal pressure variation across the wafer surface. By monitoring both <u>pressure magnitude and distribution</u> of your wafer bonding device with Fujifilm Prescale[®], wafer surface defects can be sharply reduced.

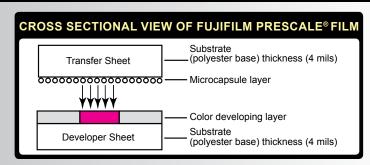
When placed in your wafer polisher, the film instantaneously and permanently changes color in direct proportion to the actual pressure applied. Precise pressure magnitude is then easily determined by comparing the resultant color intensity to a standardized color correlation chart. No training or instrumentation is required.



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.



Sensitivities To Accommodate A Wide Range Of Pressures

FILM TYPE	PRESSURE RANGE	
EXTREME LOW	7.2 - 28 PSI	(0.5 - 2 kg/cm²)
ULTRA LOW	28 - 85 PSI	(2 - 6 kg/cm²)
SUPER LOW	70 - 350 PSI	(5 - 25 kg/cm²)
LOW	350 - 1,400 PSI	(25 - 100 kg/cm²)
MEDIUM	1,400 - 7,100 PSI	(100 - 500 kg/cm²)
HIGH	7,100 - 18,500 PSI	(500 - 1,300 kg/cm ²)
SUPER HIGH	18,500 - 43,200 PSI	(1,300 - 3,000 kg/cm²)

INDUSTRY APPLICATIONS						
AEROSPACE	Composite Layups, Material Testing, Bolted Joints	PACKAGING	Heat Sealing, Converting			
AUTOMOTIVE	Gasketing, Impacts, Fuel Cell Stacking, Clutches, Brakes, Tire Tread	PLASTICS	Lamination Press, Die Extrusion Injection Molding, Stamping			
ELECTRONICS	Heat Sinks, LCD Bonding, PCB Lamination, Wafer Bonding/Polishing					
MEDICAL	Clamping, Gait Analysis, Ergonomics, Orthotics and Prosthetics	PRINTING/ PAPERMAKING	Nip Impressions			

PHYSICAL SPECIFICATIONS					
OPERATING TEMPERATURE	41°F to 95°F (5°C - 35°C) (much higher for brief exposure)	SUBSTRATE	Polyethylene Terephthalate (PET)		
HUMIDITY RANGE	20% to 90% RH	ACCURACY	±10% visual, ±2% utilizing optional optical measurement systems		
GAUGE	4, 8, or 20 mils				
SPATIAL RESOLUTION	5 to 15 microns	SHELF LIFE	2 years		

MSDS Available Upon Request.



Sensor Products Inc. 300 Madison Avenue Madison NJ 07940 USA Phone: 1.973.884.1755 Fax: 1.973.884.1699 www.sensorprod.com

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