Engine Area

Valve cover gasket
- Inspect sealing performance of valve cover gaskets

Air filter/Oil filter
- Observe contact pressure of filter part attachments

Gasket/O-ring
- Measure sealing performance of gaskets, seals, and O-rings in the exhaust manifold

Head gasket
- Inspect sealing performance of cylinder head gaskets

Oil pan
- Ensure uniform seal across oil pan

Chassis
- Measure contact pressure and distribution uniformity during spot welding

Electronics

LCD Display
- Measure contact pressure of ACF bonding machine for LCD panel or touch panel
- Check roller pressure uniformity when attaching cover glass/OCA to touch panel

PCB & Heat Sinks
- Measure lamination pressure during manufacture of PCB
- Evaluate heat sink/heat source interface contact pressures
APPLICATIONS IN THE AUTOMOTIVE SECTOR

Windshield Wiper
- Measure contact pressure and distribution of wiper blade against windshield

Clutch
- Measure contact pressure and distribution of clutch plates
- Evaluate sealing performance of clutch cover

Brake
- Measure contact pressure and distribution of brake shoe against rotor

Transmission
- Measure contact pressure between gear teeth
- Evaluate gasket and o-ring seals

Plastic parts (Bumper, Dashboard, etc.)
- Measure contact pressure and distribution of mold platens during injection molding process

Headlight
- Measure contact pressure of headlight attachment

Surface Pressure Profile Map of Fuel Cell Interface

Surface Pressure Profile Map of Tire Tread Design

Body
- Check contact pressure of electrodes in spot/projection welding
- Measure contact pressure and distribution of presses used to form metal and plastic body parts

Air bag
- Measure impact pressure against air bag

Seat
- Measure contact pressure in test dummy research applications

Door
- Validate contact pressure of weatherstrips on doors

Exhaust
- Check tightening pressure of catalytic convertor, and between exhaust manifolds and muffler’s flanges

Tire
- Check adhesion and molding pressure during manufacture of the tire
- Measure contact pressure of tire tread footprint

Floor mat
- Check adhesive pressure of floor mat lamination

Electric & Fuel Cell Vehicles

Li-ion battery
- Measure nip (roller) pressure of electrode coater
- Examine surface pressure of stacking machine for cathode, anode and separator
- Test contact pressure of tab welding machine
- Adjust alignment of heat sealing machines for aluminum lamination film

Fuel cell
- Test fuel cell stack uniformity, separator flatness, and lamination pressure of electrolyte membrane
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.

### Sensitivities To Accommodate A Wide Range Of Pressures

<table>
<thead>
<tr>
<th>RANGE NAME</th>
<th>PRESSURE RANGE</th>
<th>REQUEST SAMPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTREME LOW</td>
<td>7.2 - 28 PSI (0.5 - 2 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
</tr>
<tr>
<td>ULTRA LOW</td>
<td>28 - 85 PSI (2 - 6 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
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<tr>
<td>SUPER LOW</td>
<td>70 - 350 PSI (5 - 25 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
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<tr>
<td>LOW</td>
<td>350 - 1,400 PSI (25 - 100 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
</tr>
<tr>
<td>MEDIUM</td>
<td>1,400 - 7,100 PSI (100 - 500 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
</tr>
<tr>
<td>HIGH</td>
<td>7,100 - 18,500 PSI (500 - 1,300 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
</tr>
<tr>
<td>SUPER HIGH</td>
<td>18,500 - 43,200 PSI (1,300 - 3,000 kg/cm²)</td>
<td><img src="#" alt="Request Sample" /></td>
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