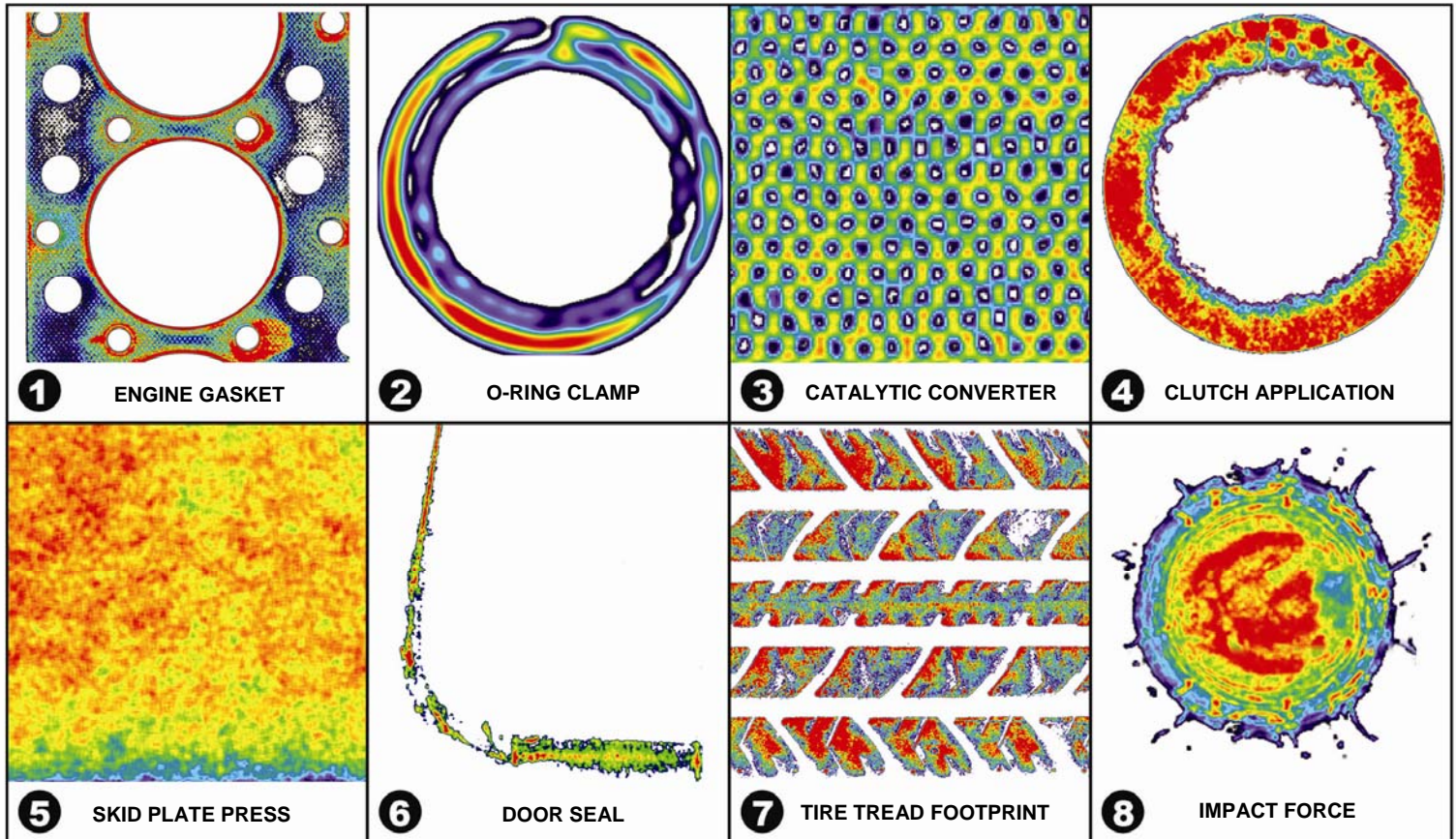


## Eight Common Automotive Applications for Pressure Sensing Film

### Automotive Industry Uses Sensor Film for More Effective Quality Control and Failure Analysis

Madison, NJ - April 1, 2009 – Pressurex<sup>®</sup> tactile pressure sensor film (TPSF), offered by Sensor Products Inc., is commonly described as an easy to employ non-destructive testing tool that quickly and accurately maps and measures pressure distribution and magnitude between any two mating, contacting or impacting surfaces. The use of TPSF in the automotive industry is seen as an effective and cost efficient way to quickly assist engineers in R&D, failure analysis and quality control efforts. In fact, OEM's and aftermarket manufacturers and distributors employ Pressurex<sup>®</sup> film in a variety of automotive applications. The most common applications and corresponding examples revealing how TPSF aids the automotive industry are listed below.



**Engine gaskets** – Evaluates adequate torque and consistency of junctions in head, valve cover, oil pan and intake/exhaust manifold gaskets and o-rings.

**Clamping** – Authenticates circumferential uniformity on cylindrical clamps and determines appropriate tensioning.

**Catalytic converter canning** – Troubleshoots for design quality of ceramic catalyts.

**Brakes/clutches** – Verifies consistent compressive force across brake shoe or clutch surface; assesses squeal and fugitive noise. Useful for quality control in caliper design and development.

**Lamination** – Offers assistance in maintaining desired plate pressure for the reduction of scrap rates.

**Door seals** – Confirms uniform sealing of moldings and weather stripping.

**Tire tread footprints** – Evaluates congruity of footprint and rib patterns. Helpful in research of tread wear patterns and development of rubber compounds and tread designs.

**Impact** – Determines the location and force of impact during airbag deployment and controlled crash tests.