



Sensor Film Aids Gasket Manufacturer in Design Process

This story highlights Pressurex tactile pressure indicating film as a case study of one of its many applications.

East Hanover, NJ ([PRWEB](#)) February 26, 2005 -- Valeo Inc., a leading supplier in automotive original equipment manufacturing and the aftermarket, initiates ongoing quality assurance efforts throughout its hundreds of plants and R&D facilities worldwide. Avinash Verma is an Expert Process Engineer at Valeo's Greensburg, Indiana facility where his work requires him to monitor the durability and performance of rectangular gasket assemblies used in automobile radiators. In the past, Verma employed sensors that provided inaccurate data. Recently, Verma considered Sensor Products' Pressurex® as a possible tool for analyzing gasket interface pressure distribution.

"Pressurex® looked like it could provide me with the data necessary to perform stress distribution analysis," Verma said. "We cut strips to the size we needed and inserted them into the assemblies. Within seconds, we were able to determine where there was inconsistent pressure on the gaskets." He added, "This sensor film helped us significantly improve our gasket designs."

Based on Verma's positive experience and subsequent recommendation, Pressurex® is now used in various other Valeo plants during the design, development and production of their automotive parts.

Pressurex® sensor film is an easy to employ NDT tool that quickly and accurately maps and measures pressure distribution and magnitude between any mating, contacting or impacting surfaces. Able to detect pressure from 2 to 43,200 PSI or .14 to 3,037 kg/cm², Pressurex® is ideal for assessing surface contact inconsistencies in gaskets, clamps, bolted joints, heat sealing elements, lamination presses, nip rolls, welding heads, clutch and brake assemblies, tire treads, connectors, heat sinks, as well as many other industrial and medical applications.

Pressurex® comes in the form of a large, thin, clear Mylar® sheet, physically similar in appearance to a sheet of paper. When placed between contacting surfaces, the film instantaneously and permanently changes color. This color change is directly correlated to the specific amount of pressure applied. Precise pressure magnitude in PSI or kg/cm² can easily be determined by comparing color variations to a color correlation chart, conceptually similar to interpreting Litmus paper. Sensor Products LLC is able to customize Pressurex® for any application by laser cutting the film for small or precision areas and provides encasement services allowing for use in environments where water, oil or other liquids might be present. The company provides enhanced optical imaging services for greater detail and comparative evaluation performed with their analysis system Topaq®, which is also available for lease or purchase.

For a free sample of Pressurex® and complimentary Topaq® analysis, contact Sensor Products LLC at 1.973.884.1755 or at info@sensorprod.com.

About Sensor Products LLC

New Jersey based Sensor Products LLC, established in 1990, is a world leader in the manufacture and distribution of tactile pressure sensing solutions. Their customized and off-the-shelf products are installed within all of the Fortune 500 industrial companies as well as thousands of smaller manufacturing firms. Their sensors are used in applications as diverse as tire testing to semiconductor manufacturing and from R&D labs to



space missions. Additionally, Sensor Products provides in-house and on-site stress and pressure mapping analysis, as well as a variety of regional technical seminars. Visit them at www.sensorprod.com.

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