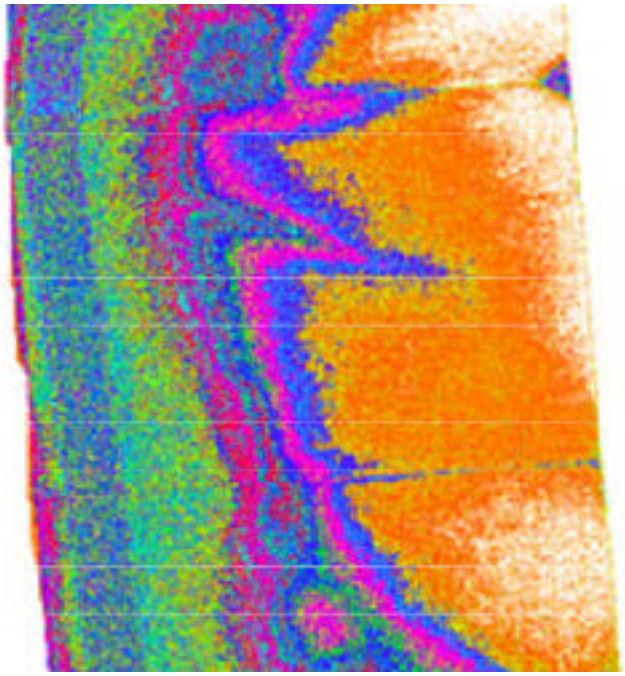
Sensor Film Verifies Correct Surface Temperature Variations of Packaging



As thermal management is crucial for proper heat sealing of packaging of medical devices and pharmaceuticals, Sensor Products Inc. is offering Thermex temperature distribution film. Thermex is an economical thin sensor film that can be used in heat sealing and ultrasonic welding of packaging to diagnose the temperature at the interface of heated contacting platens or rollers with temperatures ranging from 200 to 300°F. Many plastics used in packaging fall within these parameters. Vertical form and fill machines as well as vacuum and flat web machines may be candidates for this product. Thermex may be used alone or in conjunction with Fuji Prescale pressure indicating film from Sensor Products Inc.
As the film is used to measure temperature distribution along the point of contact, its use extends to virtually all interfaces that aren't easily accessed with traditional temperature indicators and infrared thermometers.

Upon exposure to heat, Thermex changes color instantaneously and permanently to reveal temperature distribution between any two contacting surfaces. The intensity of this color change directly relates to the temperature it was exposed to enabling Thermex to reveal spot high or low temperature zones and minute surface variations. These fluctuations cause improper sealing and need to be corrected to ensure quality control. Sensor Products Inc.'s website lists the minimum heat sealing temperatures of several materials that fall within the specified temperatures for Thermex testing.
While the Thermex test results may be saved for archival purposes, its low cost renders it inherently disposable. Post processing analysis of Thermex is available for temperature fluctuations that need to be analyzed with great precision.

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