

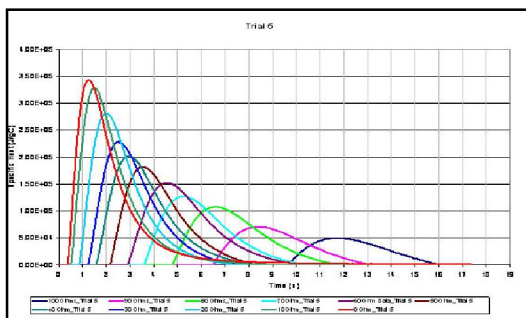
CON-TROL-CURE[®]

TFC-9000-DS[™]

Measure Ink and Coating Curability!



Quality check your coatings, adhesives, and inks with CON-TROL-CURE's[®] TFC-9000[™]



The TFC-9000[™]'s clear data enables simple analysis for your product testing.



The TFC-9000[™]'s Touch Screen User Interface

You need a radiometer to ensure the performance and curing effectiveness of your UV lamps. So, how do you ensure the performance and curing effectiveness of your inks, coatings and adhesives? Up until now, it was mostly guess work. If you had curing problems and had ruled out your UV lamps as the culprit, your next target was most likely your chemistry. **The CON-TROL-CURE[™] Thin Film Calorimeter (TFC) allows you to quantitatively measure the curability of your inks, coatings and adhesives.**

This is the 3rd generation of this instrument and with many improvements it now offers the best set of features in the market today.

The TFC-9000-DS[™] tests an inks, coatings and adhesives curability in the exact way the materials will be cured in production. The test station has 2 sensors, one to record the exotherm of the curing reaction, and a second to subtract the heat of the lamp from the test. This feature will allow any UV lamp to be used in the test. The "OPEN" test station will allow samples to be prepared in the same condition as in the production. For example we have tested DVD Bonding adhesives using a layer of the metalized polycarbonate DVD disk as a mask in the test. In addition the unique test station can be set to any temperature which further allows the test condition to mirror the production environment.

The TFC-9000-DS measures the exothermic heat reaction from a polymerizing sample through a highly sensitive sensor. It performs a rapid analysis of the incoming data to produce meaningful results. Once the green "start" button is selected, the curing and evaluation process commences.

- The desired test Temperature is set
- The sample is placed on test area 1
- A 1 cm² is placed over the sample
- The lamp is placed over the test station
- The lamp automatically turns on, or external shutter activated when the test temperature is reached.
- As the curing of the sample is achieved the display shows the heat generated on the screen.
- The sample is cured and the test is completed
- The test data is then able to be downloaded to any PC in a comma delimited file, accessed by many programs.

The unique benefit of the TFC-9000[™] is the ability to accurately measure a very small stimulus. This sensitivity, unavailable in much more expensive evaluation instruments, makes possible the quantitative analysis of photopolymerizable systems which evolve a small amount of heat. Direct implications of this phenomenon include characterization of films on the nano/micro size scale and thin pigmented UV curable ink formulations.

This instrument's precision and high sensitivity allow it to record exotherm reactions on films as thin as 2 micrometers. With a high heat tolerance, the TFC-9000[™] is ideal for heated sample testing. The sensor has an upper temperature limit of 400°F (205°C.)

The TFC-9000[™] works as a stand alone measurement system or can be connected to a computer through a serial port. The captured data can be exported and plotted to an Excel graph for quick and easy analysis.

24-HOUR PRODUCT SERVICES

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