

# IGT Tack Tester 450

## For printing inks and other pastes



IGT Testing Systems has developed the IGT Tack Tester 450 to measure the tack of printing inks and other pastes. Ink manufacturers, printers and suppliers of raw materials have to meet high quality standards, to ensure the quality of ink in a production and R & D environment. It is important to use an instrument that measures the tack of an ink in a quick and efficient way. High accuracy, low maintenance and simple operation ensure consistent results.

### APPLICATIONS

The IGT Tack Tester 450 measures the tack of ink and produces reproducible tack values. The Tack Tester uses a dedicated measuring system to measure the tack values of inks. Because of this system, measurements have become far more reliable and consistent than ever before.

Tack values are used by ink manufacturers to ensure the quality of the inks that are supplied to the graphic arts industry. For research the Tack Tester is used to develop new inks. Suppliers of raw materials can ensure the quality of their products before these are supplied to their customers.

Because of the high repeatability and reproducibility of the tack values that are measured by the IGT Tack Tester 450, it is an excellent instrument for use by many companies that operate on an international level. The IGT Tack Tester 450 can be used as a tool to ensure the consistent quality of the inks in an international environment. Tack values can be reliably exchanged between facilities to ensure a homogeneous quality throughout the world.

### OPERATION

The IGT Tack Tester 450 consists of a temperature controlled central cylinder, a distribution cylinder and a cylinder to measure the tack value. The temperature of the central cylinder is controlled by an external water bath. Temperatures can be set from 15 up to 45°C. The distribution and measuring rollers are available for conventional inks as well as for UV curing inks. The ink distribution time, speed and the time to measure the tack can be set by use of the

- **High reproducibility**

- **Easy to clean**

- **Simple to operate**

- **Consistent results**



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## Excellent reproducibility

control panel. When the test conditions have been set, ink is applied on to the distribution cylinder by using the IGT ink pipette. The distribution cylinder and the measuring cylinder are placed on to the central cylinder. When the cylinders start rotating to distribute the ink on the rollers and directly the tack values are measured and displayed on the control panel. It is also possible to place only the distribution cylinder on the central roller and distribute the ink. After the ink has been distributed, the measurement cylinder is repositioned on to the central cylinder and the tack values are processed and displayed on the control panel. The display will show each individual tack measurement per time unit and also display the peak tack value measured within the measurement period. After the tack values have been measured, the distribution cylinder and measurement cylinder are lifted and positioned into the rest position. The control panel will display the tack measurements history and indicate the highest tack value with the corresponding

time, temperature and speed. With the data processing option the measurement results can be transferred to a remote computer, which offers calculation sheets, graphs and

a data transfer option to send the measurement results to other locations. A printer can be connected to print in graphs or other statistic formats.

### SOME FEATURES OF THE IGT TACK TESTER 450:

- Very high accuracy in measurement results
- Special measuring cell with very high accuracy to record tack values
- Stainless Steel housing
- Easy cleaning
- Micro processor controlled operation: easy to operate
- Digital display that shows tack, speed, time and temperature
- Variable speed control from 50 – 450 m/min
- Temperature controlled central cylinder
- Rigid construction, can be used in a production environment
- Low initial costs
- Self calibration mode
- Rubber rollers for conventional or UV curing inks available
- Ink applied by use of an IGT ink pipette
- Computer data transfer analysis including graphical presentation (optional)
- Printer (optional)
- External temperature controlled water bath (optional)

## Agent

## IGT Testing Systems

Research, development and production of testing equipment for the printing and allied industries

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