

UV Curing Tester

UV CURE CHECK

You are easily able to determine the extent to which your inks or varnish have cured at the delivery of your printing press. This enables you to recognise an insufficient curing degree in your products ahead of time.



Polygraphische innovative
Technik Leipzig





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Working Principle

Determination and display of the coefficient of sliding friction between the ink or varnish surface and the friction element.

The coefficient of sliding friction is proportionate to the curing degree of the ink or varnish layer.

The displayed curing degree is calculated from the ratio of the coefficient of sliding friction of a completely hardened sample and the sample to be tested.



PITSID develops systems for the graphic arts industry together with the Sächsisches Institut für die Druckindustrie.

The current product assortment comprises devices for measuring and testing print registration, contact pressure, traction force, packing height, gap widths, UV curing, IPA concentrations, book block strength and also printing plate positioning in plate bending devices and roller adjustments.

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Technical Data

Measurement principle

The coefficient of sliding friction is determined through the friction force of a friction element drawn over the ink or varnish surface.

Calibration

Printed reference sheets are cured with a maximum UV dosage (maximum output of the dryer and minimum speed). This reference coefficient of sliding friction is determined with the UV CURE CHECK on these sheets and is required for determining the curing degree.

Measurement uncertainty

Reproducibility of individual measurements $< \pm 10 \%$

Measurement time

Approx. 5 s

Display

2-line display, 15 x 52 mm

Device dimensions

350 x 105 x 90 mm

Weight

1,100 g with friction element

Power supply

Battery operation: 6 x 1.5 V, Mignon type (AA)

Electrical operation: Using delivered plug-in power supply unit

Automatic shutdown

After 10 min. without use

Scope of delivery

Measurement device with friction element including batteries, plug-in power supply unit, carrying case, 10 replacement friction pads, operating manual