

What is Green Detex?

Green Detex is light sensitive, coated self adhesive material manufactured exclusively by Sessions of York, England. This indicator material measures the intensity of U.V. lamps. As each lamp loses its strength over time, 100% drying is not guaranteed. To assess the performance of a lamp, advanced measuring equipment would have to be used. Therefore Green Detex offers the following advantages:

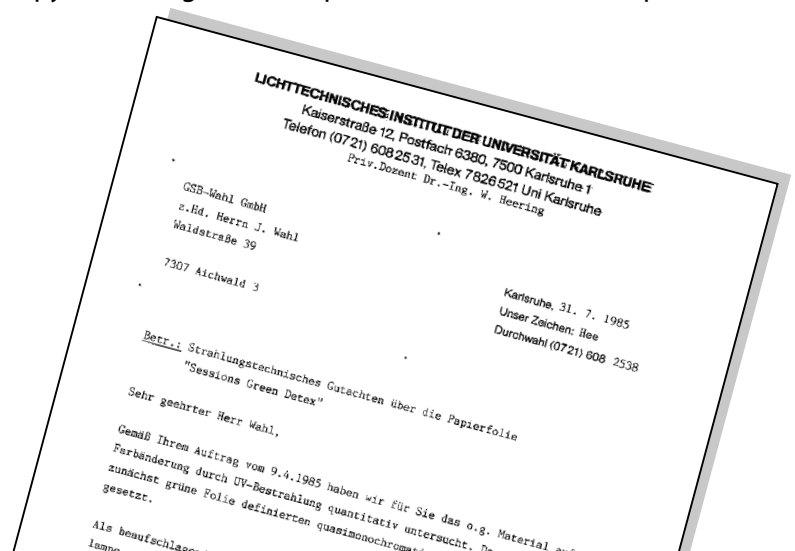
- easy handling
- immediate results
- comparative monitoring
- cost effective

Green Detex is self adhesive and can also be applied to the material under test without incurring line stoppage production losses. It should be stored in dark and dry conditions and has a shelf life of 6 months.



How good is Green Detex?

To ensure that we can offer industry a material which really works and achieve results which can be measured, the Lighttechnisches Institute of Karlsruhe University in Germany has tested Green Detex. A copy of the original test report can be obtained if required.



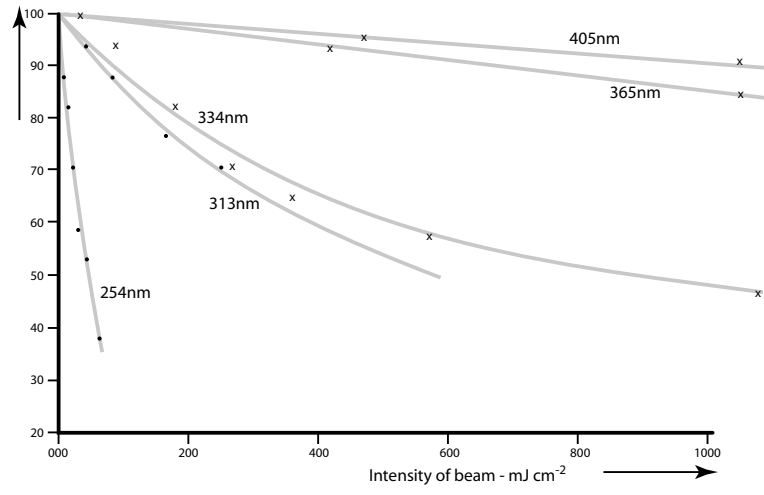
Who should use Green Detex?

Green Detex can be used to test all types of U.V. lamps used for U.V. drying and treatment. Green Detex changes colour depending on the amount of exposure time and the intensity of the U.V. lamp. As the intensity of the U.V. lamp reduces the degree of colour change is also reduced. An unexposed panel is shown in panel 4 opposite and can be compared with a sample exposed to a new lamp shown in panel 1. Green Detex is most effective in wave bands below 340nm.

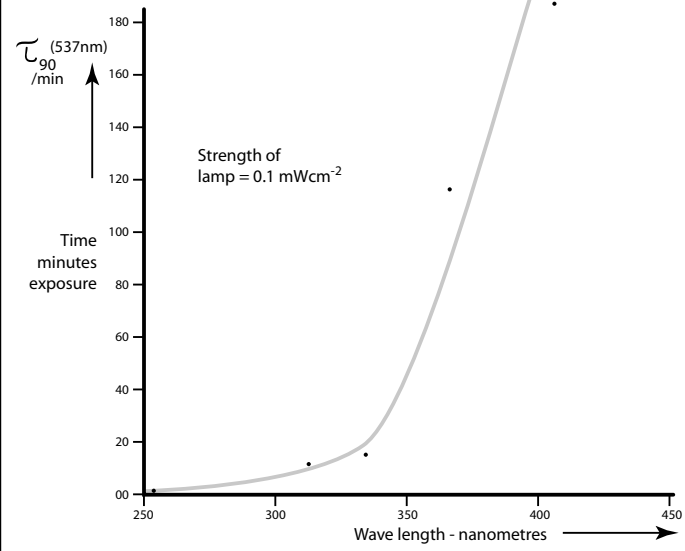
It can be used in the following industries:

- Printing industry
- Wood processing and finishing
- Metal coatings
- Plastic industry
- Electronics industry
- Technical, medical and chemical industry
- Research institutes, universities and laboratories





Relative absorption with 537nm



Green Detex will operate at web speeds of up to 10m/min. Faster speeds will result in a more subtle colour change.

A weak lamp was used to determine the variation of colour - a new lamp would have changed colour immediately.

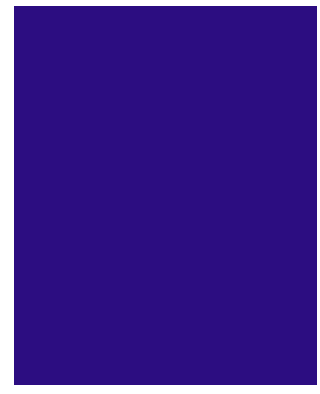


How it works

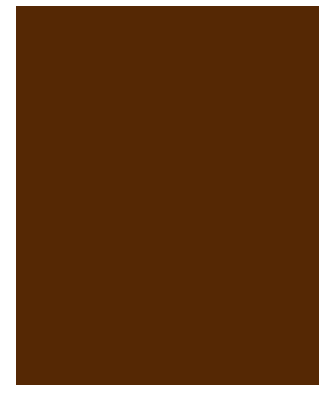
After installation of a new U.V. lamp you should test it with Green Detex. Subsequent tests should take place after 100 production hours so that you can measure the performance reduction of the lamp exactly.

N.B. All values are approximate, as each U.V. lamp reacts differently, i.e. have different life spans.

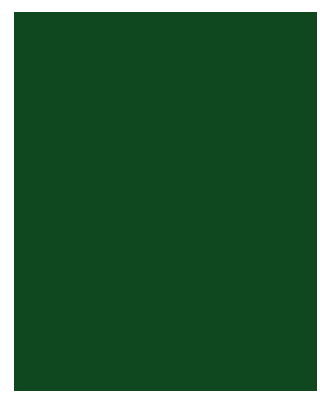
Panel 1 - New lamps



Panel 2 - after 500 hours



Panel 3 - after 1500 hours



Panel 4 - unexposed



The result



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