

YELLOWING TEST KIT FOR THE PREDICTION OF PHENOLIC YELLOWING

PHENOLIC YELLOWING

This is a simple, predictive test, typically used to assess the potential of white or pastel-coloured textiles to transit or storage yellowing.

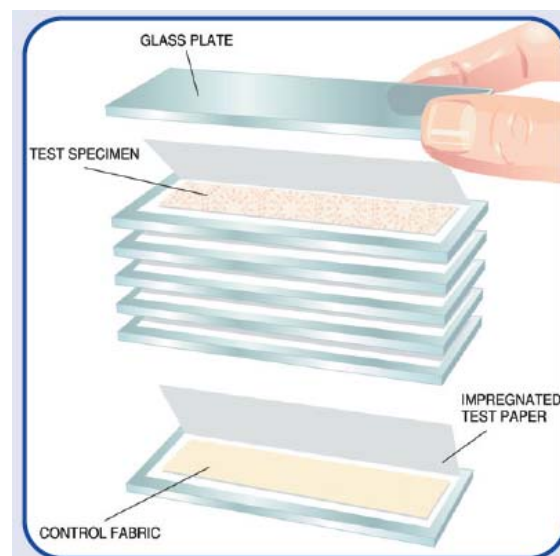
The test is specific to phenolic yellowing, that is the discolouration of textiles caused by the action of oxides of nitrogen on yellowable phenols. It is not intended to deal with the many other causes of discolouration, e.g. the migration or fading of optical brightening agents, gas fume fading, the oxidation of fabric lubricants and so on.

Based on a technique originally developed by Courtaulds Research, the James Heal Phenolic Yellowing Test Kit has proved to be an effective means of controlling the quality of white and pastel-coloured goods and has considerably reduced the incidence of yellowing complaints arising from storage yellowing.

The James Heal Phenolic Yellowing Test Kit has since become established as the benchmark industry standard and is widely specified by a number of major retailers.

The risk of phenolic yellowing is evaluated by a contact test. Each test specimen is folded between a phenol-impregnated test paper. The test package consists of 5 test specimens and one standard control fabric wrapped and sealed in BHT - free polythene film. Constant pressure on the package is maintained by a Perspirometer, and the specified environmental conditions are provided by an Incubator.

On removal from the Incubator the specimens are compared with their originals and the intensity of yellowing assessed using the standard Grey Scale for Staining.



Please turn over

YELLOWING TEST KIT FOR THE PREDICTION OF PHENOLIC YELLOWING

ORDERING INFORMATION

- Pack (150 pieces) Impregnated Test Papers [100 x 75mm] Stock Code: **706-708**
- Pack (50 pieces) Impregnated Test Papers [100 x 75mm] Stock Code: **706-720**
- Pack (25 pieces) Control Fabrics [100 x 30mm] Stock Code: **706-709**
- Pack (100 pieces) BHT-free Polythene Film [400 x 200mm] Stock Code: **706-792**

STANDARDS/METHODS

- **EN ISO 105-X18** 'Assessment of the potential to phenolic yellowing of materials'
- **M&S C20B** 'Elusive / Reversible Yellowing: Courtaulds Method'
- **TESCO Appendix D and Appendix N** 'Phenolic Yellowing'
- **Next TM43** 'Phenolic Yellowing'
- **Arcadia AG16** 'Phenolic Yellowing'
- **BHS TM 45** 'Phenolic Yellowing'
- **Adidas 5.10** 'Phenolic Yellowing'

WHAT ELSE IS NEEDED?

James Heal supply: Perspirometers, Glass Plates, Incubators, and Grey Scales – please enquire for details of all the equipment required for carrying out this test.