

Laundry System Evaluation using EMPA #224 Swatches

AS 4146-2024

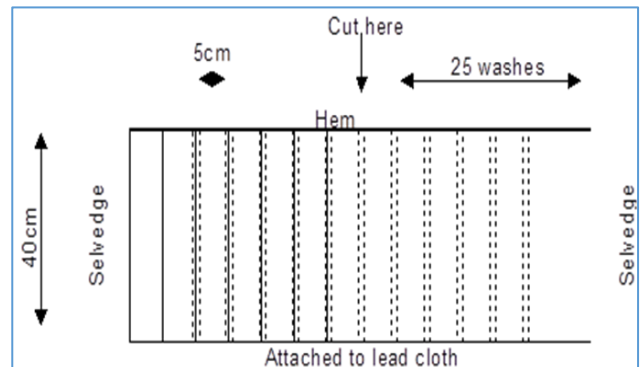
Fabric degradation after multiple wash cycles

Control strips of EMPA Style #224 test pieces are available for purchase through AWTa Product Testing.

Each strip consists of a white woven fabric (dimensions 81cm x 40cm) with 13 vertical strips between triple parallel green stripes. The distance between the central green stripes is 5cm.

Total degradation after laundering can be calculated from:

- T99D Mechanical Damage
- T99E Chemical Damage (Cotton Fluidity)
- T99F Whiteness/Greying/Yellowing



Instructions for laundries

- 1) Wash the strips with regular soiled loads in the system to be evaluated, or that typically used in day-to-day practice, and then return to AWTa for assessment. Pass swatch through the required washing, drying and ironing cycle. At the completion of each cycle, an identifiable mark should be made on the swatch along the selvage edge, recording the number of completed cycles.
- 2) It is recommended that 50 cycles be conducted before testing, however, if performance indication is required after 25 washes cut the swatch down the centre parallel to the seventh set of triple green stripes at the completion of the 25th drying cycle. Hem the remaining swatch along the cut edge and return for a further 25 washes.
- 3) The 25 washes swatch should be completely dried and pressed (flat) and then placed in a plastic bag and clearly identified.
- 4) At the completion of the 50 wash cycles, the swatch should also be completely dried and then placed in a plastic bag and clearly identified.
- 5) Send the 50 and/or 25 wash cycle swatch to the AWTa Product Testing Laboratory with a completed sample submission form.
- 6) For indication of the percentage mechanical damage, it is imperative that the swatch batch number is referenced on the sample and submission form.

Delivery Address	Further information
AWTa Product Testing Level 1, 191 Racecourse Rd, Flemington VIC 3031, Australia	AWTa Product Testing Phone: (03) 9371 2400 Email: producttesting@awta.com.au

IMPORTANT NOTE: That by submitting samples for testing **YOU AGREE** that the resulting testing shall be performed under our terms and conditions for testing and consulting services: www.awtaproducttesting.com.au/index.php/about/terms-and-conditions