HOHENSTEIN

Barrier effect against mite faeces allergens

Allergen-proof sheets can protect house dust mite allergy sufferers from mite allergens and reduce symptoms.

The test verifies the barrier of bedding and encasings to the allergenic mite faeces.

This test is particularly suitable for

- Manufacturers of bedding and encasings
- Textile manufacturers

Description

The barrier effect of bedding or encasings against mite faeces allergens is tested with a specially developed loading test bench. This involves applying a defined quantity of mite faeces allergens to the test specimens and a load is simulated by pressure and friction. The quantity of mite faeces allergens that was able to permeate the test specimen is then determined using the enzyme-linked immunosorbent assay (ELISA) technique. Therefore, the test also provides information about the suitability of the product for house dust allergy sufferers.

Customer benefit

- Consumer safety
- Minimisation of complaints
- Optimisation of product
- Marketability of goods

Marketing Instruments – Labels and Certificates

With proven effectiveness, it is possible to label the product that completely encloses the mattress or bedding with the "House Dust and Mite Barrier" quality label to visibly display the tested quality to the customer

Test sample requirements

General

- Ensure labelling of test specimens is sufficiently precise (composition of materials, article numbers, storage if applicable, etc.).

Quantity of material

- For mattress covers, one complete product is needed. For small patterns (e.g. pillowcases) two products are needed.

Duration of the test

- 2 – 3 weeks; confirmation of duration following receipt of test samples

Test criteria

- The retention capacity of mite faeces allergens of a test sample is determined.
- If the surface achieves ≥ 95 %, the seam ≥ 90 % and the zipper ≥ 85 % reduction in mite excrement allergen relative to the reference, the product can be declared "impermeable to mite droppings ".