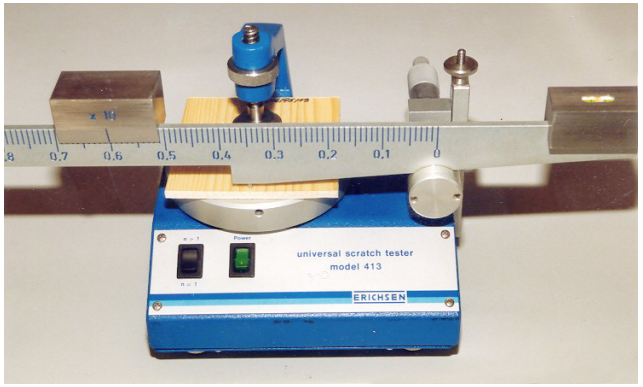
Quality attestation

- Quality label "Quality Proven" on the test certificates

Professional competence and equipment

The laboratory of Surface Testing is part of a test laboratory that has been accredited according to ISO 17025 and has at its disposal the professional competence and technical equipment enabling it to comprehensively evaluate the quality of all typical furniture surfaces. Apart from the "classical" surface testing devices, the test laboratory is equipped with modern and capable instruments for environmental simulation and for ascertaining living-hygiene properties. At the test laboratory, test methods and requirement profiles are being developed and verified according to which nonstandardised properties or new products and their advantages can be evaluated in differentiated ways. The experts actively participate in ISO, EN and DIN standard committees as well as other experts' panels for further development of the state-of-the-art technology.



Testing of scratch resistance

11/22-F11

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Surface Testing

Surface testing of furniture and

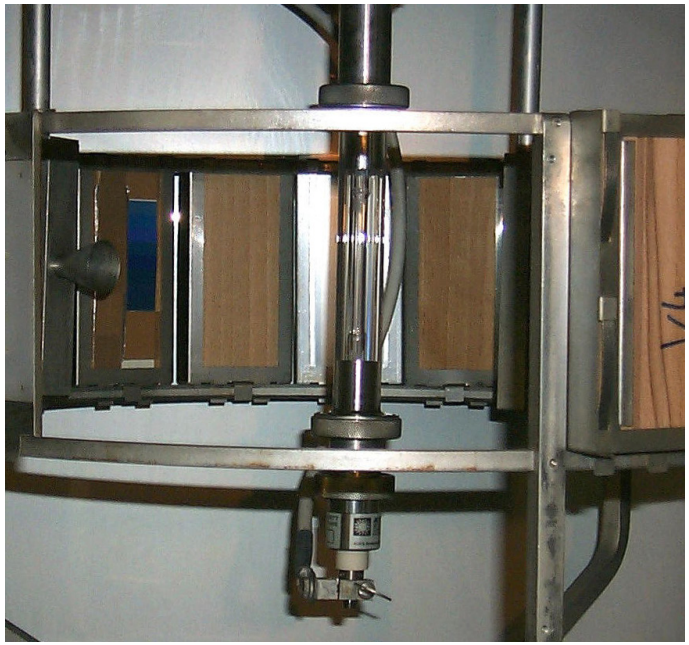
furniture components,

construction elements and coating materials

DAkkS
Deutsche
Akkreditierungsstelle
D-PL-11054-01-00

Wear resistance and living hygiene

The perception that, on the one hand, the agreeable appearance of furniture is decisive for the customer's purchasing decision and that permanent customer satisfaction, on the other hand, is considerably determined by living-hygienic and long-term performance properties has generally come to be accepted by the furniture industry. Therefore, proof of performance properties of coating is an indispensable part of supply agreements between the furniture and the supplying industry.
The EPH (Entwicklungs- und Prüflabor Holztechnologie GmbH) offers a wide range of testing services to, mainly, manufacturers and suppliers in the fields of furniture and interior design, with the help of which processibility, wear resistance, ageing resistance as well as properties of environmental relevance of surfaces can be well-balanced and assessed for their respective field of application. Being an accredited laboratory, our independent testing services will help to provide you with quality attestation.



Xenon-light method for testing of light fastness

Our services

Testing of finished surfaces and coating materials, such as films, lacquers, laminates, melamine surfaces, glazes, oils and waxes

We are testing according with international and national standards as well as IHD work standards:

- Testing of processibility, adhesive strength and the appearance of surfaces
  - Determination of post-formability and of deforming behaviour of films and laminates
  - Determination of adhesive strength by grit-cross-cutting and peeling-off adhesion testing
  - Determination of colour, the degree of surface reflection, gloss and surface structure

- Testing of wear resistance of surfaces
  - Determination of abrasion, scratching, microscratching and impact resistance as well as microhardness
  - Determination of resistance against dry and wet heat
  - Determination of resistance against staining and of soiling tendency

Our services

- Testing of resistance against temperature, climate, light and ageing
  - Determination of water and water vapour resistance
  - Determination of temperature resistance (temperature changing tests, rising heat tests and others)
  - Determination of climatic resistance (cracking and dimensional stability at changing and constant climates)
  - Determination of light fastness (exposure to natural and artificial light)
  - Determination of colour fastness (dark yellowing and friction resistance)

- Testing of living-hygiene properties
  - Determination of saliva and sweat fastness as well as of migration behaviour of heavy metals
  - Determination of the emission behaviour of e.g. substrate materials, coatings, insulating materials, laminates and building products
  - Determination of the odour of components

- Examples for testing and evaluating according to product standards
  - DIN 68861 p.1 - p.8, EN 12720 - EN 12722, EN 13721, EN 13722, EN 15185 - EN 15187, CEN/TS 16611, EN 71-3
  - EN 438 p.2 - p.9, ISO 4586-2: 2018 (HPL surfaces)
  - EN 14322 - EN 14323 (Melamine faced surfaces)
  - ISO 4211, ISO 4211 p.2 - p.5
  - EN ISO 19712 (Decorative solid surfacing materials)
  - IOS-MAT-0066/IOS-TM-0002
  - RAL guidelines, e.g. RAL-GZ 430, 435