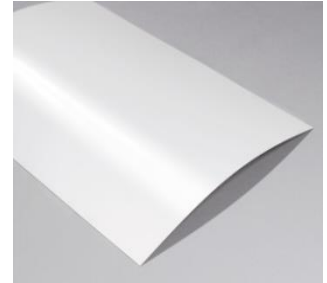


## Technical data sheet

### Antibacterial properties of EGGER melamine resin surfaces



The melamine resin surfaces of EGGER products: Eurodekor, laminates and compact laminates are characterised by their hygienically sealed surfaces. They are generally easy to clean, can be disinfected very well and also have an antibacterial effect. Thanks to these properties, EGGER melamine resin surfaces have long proven their suitability for use in shops, restaurants, doctors' surgeries and hospitals.

### ISO 22196 - Measurement of antibacterial activity on plastic surfaces

In 2000, the JIS (Japanese Industrial Standard) Z 2801 test was developed for plastic surfaces. In 2007, with the publication of ISO 22196, the test method from JIS Z 2801 was also standardised internationally. Today, ISO 22196 is the most important internationally recognised test method for evaluating the antibacterial activity of plastic materials (and other non-porous surfaces) to inhibit or kill the growth of test microorganisms.

For the standard test, two different germs are tested: Staphylococcus Aureus and Escherichia Coli. The bacterium Staphylococcus Aureus belongs to the normal colonisation flora of the skin in humans and Escherichia Coli is a bacterium that normally occurs in the human and animal intestine. Both are applied to the test surfaces. At the beginning of the test the exact concentration is determined. The test surface with germs is stored for 24 hours at 35 °C and a relative humidity of 90 %, under defined conditions. Immediately afterwards, the concentration is measured again.

Decisive for the evaluation of the antibacterial activity is the so-called reduction value: How many germs still exist after 24 hours as compared to the start of the test? ISO 22196 does not provide a scale to classify this value. Therefore, an evaluation scale (Table 1) based on ISO 20743 is generally used. In most cases, requirements are defined according to this scale in tenders for hospitals or similar public institutions.

Effectiveness of antibacterial properties	Value of the antibacterial effect A [log <sub>10</sub> KBE].
none	$A < 2$
significant	$2 \leq A < 3$
high	$A \geq 3$

Table 1

In the tests performed, EGGER products Eurodekor, laminate and compact laminate have achieved the effectiveness "strong", value of antibacterial effect  $A \geq 3$ .

## Cleaning

EGGER melamine resin surfaces must be cleaned regularly during the service life and disinfected if necessary. The antibacterial properties are no substitute for cleaning or disinfecting the surfaces.

## Accompanying documents

Further information on the results of the tests for antibacterial activity and effectiveness can be found in the documents listed below:

- Test report "EGGER Eurodekor - Determination of antibacterial activity."
- Test report "EGGER Laminate - Determination of antibacterial activity."
- Test report "EGGER Compact Laminate Black Core - Determination of antibacterial activity."
- Test report "EGGER Compact Laminate Coloured Core - Determination of antibacterial activity."
- Technical leaflet "EGGER Eurodekor - Cleaning and care instructions"
- Technical leaflet "Resistance of EGGER Eurodekor to disinfectants"
- Technical leaflet "EGGER Laminate Cleaning and Maintenance Instructions"
- Technical leaflet "EGGER Laminate Resistance to Chemicals"

Provisional note:

This technical data sheet has been carefully drawn up to the best of our knowledge. The information provided is based on practical experience, in-house testing, and reflects our current level of knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or suitability for specific applications. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical changes may result from the further development of EGGER melamine surfaces as well as changes to standards and public law documents. This technical data sheet is not an instruction for use and is not a legally binding document. Our general Terms and Conditions apply.