# Technical datasheet

## EGGER PerfectSense® Matt Lacquered Particleboards

Material description:
Decorative, UV coated wood-based material
based on EGGER Raw Particleboards – board type according EN 312
Use: Decorative wood-based panels for interior uses

## EGGER Raw Particleboards - board type according to EN 312

For PerfectSense® Lacquered Particleboards our EGGER Raw Particleboards E1E05 TSCA P2 core boards in accordance with EN 312 are used as standard. Information on the mechanical properties and formaldehyde emissions is directly related to the core material used and the panel thickness. For detailed information, please refer to the respective technical data sheets of the core materials, available at www.egger.com.

## General tolerances

| | Test standard | Thickness range*1) | | | Unit |
|---|---|---|---|---|---|
| | | <15mm | 15 to 20mm | >20 mm | |
| Thickness | | | | | |
| Single-sided PerfectSense | EN 14323 | ±0,3 | ±0,3 | ±0,5 | mm |
| With multilayer construction (TM28/TM37) with single-sided PerfectSense related to the finished size*2) | EN 14323 | ±0,5 | ±0,5 | ±0,5 | mm |
| Length and Width | | | | | |
| Commercial available size | EN 14323 | ±5 | ±5 | ±5 | mm |
| Cut-to-size boards | EN 14323 | ±2,5 | ±2,5 | ±2,5 | mm |
| Flatness | | | | | |
| | EN 14323 | -- | ≤2*3) | ≤2*3) | mm/m |
| Edge damage | | | | | |
| Commercial available size | EN 14323 | ≤10 | ≤10 | ≤10 | mm |
| Cut-to-size boards | EN 14323 | ≤3 | ≤3 | ≤3 | mm |

## Surface properties

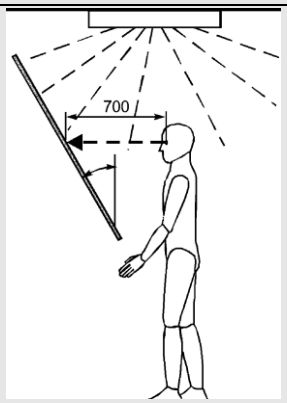
| | Test standard | Class | Value | Unit |
|---|---|---|---|---|
| Scratch resistance | | | | |
| TM | EN 438-2 | ≥ Grade 3 | ≥4*4) | N |
| TM12, TM22, TM28, TM37 | EN 438-2 | ≥ Grade 2 | ≥2*4) | N |
| Micro scratch resistance | | | | |
| TM | DIN CEN/TS 16611 | B | 4 | - |
| TM12, TM22, TM28, TM37 | DIN CEN/TS 16611 | B | 3 | - |

| | | | | |
|---|---|---|---|---|
| Chemical resistance | | | | |
| | DIN 68861-1 / DIN EN 12720 | 1B | - | - |
| Antibacterial properties | | | | |
| | ISO 22196 | Level | certified antibacterial property | |
| Cross-cut | | | | |
| | DIN EN ISO 2409 | 0 - 1 | - | - |
| Gloss level | | | | |
| | EN ISO 2813 | 60° | 3 ±2 | - |
| Steam resistance | | | | |
| | EN 438-2 | ≥ Grade 5 | - | - |
| Resistance to dry heat | | | | |
| | EN 438-2 | ≥ Grade 4 | 140 | °C |
| Resistance to wet heat | | | | |
| | EN 438-2 | ≥ Grade 4 | 100 | °C |
| Light fastness | | | | |
| | EN 438-2 | Grey scale 4 | | |
| Wet climate resistance*5) | | | | |
| Climate 40 ±2°C; relative humidity 85 ±5%; duration 14 days | AMK-MB-005, module 2 | No gap forming or edge breaking | | |
| Alternating climate resistance*5) | | | | |
| 10 cycles: 1h Climate -20 ±2°C; 3h Climate 20 ±2°C / humidity 85 ±5%; 3h Climate 60 ±2°C / humidity 55 ±5% | AMK-MB-005, module 3 | No surface cracking, no discoloration, no gap forming or edge breaking | | |
| Surface defects acc. to AMK-MB- 009 | | | | |

On an even surface, defects must not appear at a distance of 0.7meters. Where surfaces without any defects cannot be realized, small flaws and irregularities in the surface are admissible. Surface defects are only those defects, which are greater than 1.0mm² and recognized when examining the surface at a distance of 0.7meters and an angle of view of about 30°. The defined maximum is 1 defect/m².

The following framework conditions apply:

- Viewing distance: 700 mm
- Lighting intensity: 1000 – 2000 lx
- Inclination angle: 30° to the vertical
- Type of light (daylight, color temperature) D 65: 6500 K
- Viewing duration: max. 20 seconds




*1) relative to the total thickness
*2) Tolerance of final thickness: final thickness includes the coating on the top and bottom side without protective film
*3) only with balanced construction of surfaces
*4) with ≥ 90 % continuous and clearly visible double circles as scratch marks in N
*5) refers to the component test with matching EGGER edge band (PU-glued)

## General notes

Careful inspection of incoming goods is an essential part of proper order processing and is included in the EGGER Group's payment and delivery terms. EGGER recommends that this inspection is carried out using general statistical processes. PerfectSense lacquered boards must be transported and stored with care. It is expedient to store the boards lying down on a flat, level and dry ground, with a cover board in a closed building. The max. stacking height is 1.5m (4 packages). The room climate should correspond to a temperature range of 10°C to 50°C and a relative humidity of 65%. In case of deviating conditions, it is recommended to pack the products separately to ensure stable quality. Before installation, it is recommended to condition the product to the expected climate of use. For further information, please visit www.egger.com.

Note: PerfectSense lacquered boards protective film must be removed immediately after processing, but no later than 5 months after delivery to ensure residue-free removal of the film can. The surface temperature must be at least 15°C before the protective film is removed evenly and without jerking. This also minimises the risk of adhesive residue from the protective film remaining on the surface. Foiled products shall not be exposed to direct sunlight (UV radiation).

## Colour matching and surface texture

Slight colour deviations in the same product are possible due to tolerances in the primary materials used. Components that are used next to each other should therefore be checked for colour uniformity. A deviation in colour and surface between the EGGER colour reference and the customer's test piece is permissible in accordance with EN 438. It should also be noted that surfaces may change colour over time due to various environmental factors, such as UV radiation.
Due to the production that differs by product, colour and surface differences can also occur between different products (e.g. faced board, laminate, edging) with the same decor-texture combination. For an accurate representation of the colour, order a sample in the relevant product.

## Resistance against heat

The resistance against heat of PerfectSense lacquered boards differs between long and short periods of heat exposure. For long and continuous periods of heat exposure, a maximum temperature of 50°C (122°F) is applicable. We kindly advise that continuous exposure in temperatures of over 50°C (122°F) may result in surface defects such as cracks.
Installations of technical equipment that emit heat, for instance laptops, require an appropriate distance between heat source and melamine surface to avoid heat accumulation and allow air and temperature circulation.

## Antibacterial property

The hygienically sealed and closed surface of this product is 99.9% germ and bacteria free 24 hours after being cleaned and sanitized. The product does not contain a known substance that is intended to prevent, destroy, repel or mitigate a pest, and our product is not a device that is intended to trap, destroy, repel or mitigate pests.

## Further documents

Technical datasheet EGGER Raw Particleboards E1E05 TSCA P2
Processing instructions EGGER PerfectSense® Lacquered Boards
Cleaning and care instructions EGGER PerfectSense® Lacquered Boards

Provisional note:
This technical datasheet has been carefully drawn up to the best of our knowledge. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of EGGER PerfectSense® Lacquered Boards, as well as from changes to standards and public law documents. The contents of this technical datasheet should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.

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