

# PRODUCT DATA SHEET

## EGGER LAMINATE MED



EGGER Laminate MED is a decorative laminate based on curable resins. The laminate is constructed by fusing multiple layers and consists of melamine resin impregnated decor paper and several phenolic resin impregnated core layers. EGGER Laminate MED is suitable for all uses / areas of application as outlined below and in addition meets the requirements of the **Marine Equipment Directive** with regard to:

- Low flammability
- Toxicity
- Smoke density

The MED quality is certified by Lloyd's Register Verification Ltd.

## Uses / Areas of application

EGGER Laminate MED is used for the lamination of worktops, furniture fronts, window sills, doors, tabletops, splashbacks and decorative end panels. Due to the certified MED quality it can be, and in some cases must be, used in shipbuilding.

## Storage / Fabrication

### STORAGE

We recommend storage in closed, dry areas in the original packaging, lying flat on a pallet (approximately 20°C and 55% to 65% relative humidity). If stored correctly, the product will retain its postforming properties for up to 6 months. Once the original packaging has been opened, any remaining unused laminate sheets should be completely covered with a board.

### FABRICATION

Suitable for bonding onto classic wood-based materials such as: Chipboard / MDF / HDF boards. Can be bonded in presses (flat bed, short-cycle and twin belt presses) with conventional urea resin glue and dispersion adhesives, using either hot or cold processes.

**Please follow the machinery and adhesive suppliers' instructions.**

To ensure successful fabrication and bonding, we recommend that the EGGER MED laminate as well as the substrates are conditioned in normal, temperate environments. Wood-based materials such as blockboard and veneer plywood require special attention and in-house press tests should be carried out prior to going into full scale production.

It should be noted that blockboard and veneer plywood do not reach the same homogeneity as chipboard as they consist of veneers and / or solid wood. In fluctuating climatic conditions, the dimensional changes of constituents such as veneer and/or solid wood do not reach the same uniformity as can be guaranteed with wood chips. However, a flat and tension-free substrate is a prerequisite for an even surface, necessitating therefore that a substrate calibration as well as a wood moisture content test (internal application  $\leq 8\%$ ) be carried out.

Materials that are processed when they are too moist tend to shrink over time, which may lead to cracks and warpage. When using Multiplex boards, preference should be given to veneer plywood made of softwoods (e.g. poplar, birch, okoume, abachi). Similarly, blockboards should consist of narrow strips with a softwood surface layer to prevent surface irregularities.

Please refer to the leaflet "Processing instructions EGGER Laminate" for further detailed information.

## Stock programmes

The ZOOM® collection range is available from stock in single sheets or more in a sheet size of 3050 × 1300 × 0.8 mm. Decors from the INDUSTRY collection are produced to order, subject to a minimum order quantity of 260 m<sup>2</sup> per decor.

## Quality characteristics / Technical data

In accordance with EN 438:2005, EGGER Laminate MED is classified as an HGP laminate (Horizontal General purpose Postforming). The HGP classification in accordance with EN 438:2005 specifies the minimum laminate quality characteristics required (application classes) and states that the laminate can be used for horizontal applications with postforming requirements. HGP laminate is typically used on for kitchen and office work surfaces which need to be highly durable. The following table shows the Standard's requirements necessary for the quality features abrasion, scratch and impact resistance. Grade 3 signifies high resistance and EGGER Laminate MED fulfils the requirements.

Property	Unit	Requirement Standard EN 438:2005	Grade	Test method
<b>Abrasion resistance *</b> Initial abrasion point IP	Revolutions	≥150	3	10
Abrasion value (IP+FP)/2		≥350		
<b>Impact resistance</b> Impact small ball	Newtons	≥ 20	3	20
<b>Resistance to Scratches</b> Scratch resistance	Degrees	3	3	25

\* Values may be lower for full pearlescent print decors. These are therefore unsuitable for horizontal applications.

In compliance with the standard, counters require an HDP (Horizontal Heavy-Duty Postforming) laminate with a very high degree of resistance, classified as Grade 4. This special grade laminate is **not available ex stock** and can only be produced to order with a minimum order quantity of 260 m<sup>2</sup> per specification.

## Additional quality features

Quality feature	Unit	Result	Standard
Resistance to dry heat *	Grade	4	EN 438-2:2005
Resistance to water vapour *	Grade	4	EN 438-2:2005
Resistance to staining group 1 and 2	Grade	5	EN 438-2:2005
Resistance to staining group 3	Grade	4	EN 438-2:2005
Lightfastness (Xenon arc lamp)	Grey scale	4 - 5	EN 438-2:2005
Resistance to cigarette burns	Grade	3	EN 438-2:2005

\* Values may be lower for full pearlescent print decors. These are therefore unsuitable for horizontal applications.

## DIMENSIONS / TOLERANCES / AVAILABLE FORMATS

Nominal laminate thickness (mm)	Available Formats		Thickness tolerance (mm)	Length tolerance (mm)	Width tolerance (mm)
	Roll	Sheet size			
0.8		■	± 0.10	+10/-0	+10/-0

## SHEET SIZE FORMAT

Minimum length: 800 mm

Maximum length: 5,600 mm

Maximum width: 1,300 mm

Width cross cuts: max. 3 cross cuts; minimum laminate width 200 mm; Please note: 5 mm waste per cross cut.

## POSTFORMING PROPERTIES

EGGER Laminate MED with a nominal thickness of 0.8 mm can be postformed in the longitudinal direction – smallest radius  $\geq 5$  mm.

## FIRE BEHAVIOUR

In the event of fire, EGGER Laminate MED meets the requirements for interior fittings. There is little formation of smoke, the laminate does not soften and is non drip-forming. EGGER Laminate MED does not contain chlorine or halogens and therefore prevents consequential fire damage such as corrosion to machinery and buildings.

## Care and cleaning recommendation

Due to its resistant and hygienic, dense surface, EGGER Laminate MED does not require any special form of care. The surfaces are generally easy to clean. This also applies to textured surfaces.

More detailed information can be found in our "EGGER laminate cleaning and use instructions" leaflet.