

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.

However, the MED quality does not meet the requirements for reaction to fire of the German building material class B1 according to DIN 4102-1: 1998-05 or the French fire behaviour category M1 according to NF P 92-501. These special requirements are met by EGGER Laminate Flammex. For further and detailed information, please see the datasheet "EGGER Laminate Flammex".

Uses/Areas of application

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.

Availability

In the ZOOM Collection, EGGER offers the laminate quality MED in the dimensions 2,800 x 1,310 x 0.80 mm from stock and in quantities of one unit. Decors according to the country-specific availability guide for the ZOOM Collection. Furthermore, the MED quality can be produced on an order-specific basis and under consideration of the minimum order quantity of 260 m² in different lengths and the nominal laminate thickness of 0.60 mm.

Storage/Fabrication

STORAGE

Laminates should be stored in enclosed, dry areas under normal climatic conditions and protected from moisture. After removal of the original packaging, the laminates should be stored horizontally on a flat protective base board of equal or greater dimension. Direct floor contact and/or exposure to sun light must be avoided. The decorative face side of the uppermost sheet of laminate should be facing down and the laminates should be covered with a protective board of equal or greater dimension. Where horizontal storage is not possible, the laminate sheets should be stored in an inclined rack at an angle of approximately 80°, providing support to the entire surface area. This storage method also necessitates the use of a protective board of at least equal dimension.

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

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.

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 438-3:2005 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 438-3:2005	Grade	Test method
Abrasion resistance *1				
Initial abrasion point IP	Revolutions	≥ 150	3	10
Abrasion value (IP+FP)/2		≥ 350		
Impact resistance				
Impact small ball	Newton	≥ 20	3	20
Resistance to Scratches				
Scratch resistance	Grade	3	3	25

*1 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 m² per specification.

Additional quality features

Quality feature	Unit	Result	Standard
Resistance to dry heat ^{*1}	Grade	4	EN 438-2:2005
Resistance to water vapour ^{*1}	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) ^{*2}	Grey scale	4 bis 5	EN 438-2:2005
Resistance to cigarette burns	Grade	3	EN 438-2:2005

^{*1} Values may be lower for full pearlescent print decors. These are therefore unsuitable for horizontal applications.

^{*2} Extraneous darkening and/or photochromism are due to the shock effect of accelerated exposure, and are not characteristics of natural exposure.

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

Dimensions/Tolerances/Available Formats

Nominal laminate thickness [mm]	Available Formats		Thickness tolerance [mm]	Length tolerance ^{*3} [mm]	Width tolerance [mm]
	Roll	Sheet size			
0.60	▪	▪	± 0.10	+10/-0	+10/-0
0.80		▪	± 0.10	+10/-0	+10/-0

^{*3} length tolerance only applies to laminate supplied in sheets, not for rolls.

SHEET SIZE FORMAT

Minimum length: 800 mm
 Maximum length: 5,600 mm
 Maximum width: 1,310 mm
 Width cross cuts: max. 3 cross cuts; minimum laminate width 250 mm; Please note: 7 mm waste per cross cut.

ROLL FORMAT

Maximum length: 400 m
 Maximum width: 1,310 mm
 Width cross cuts: max. 3 cross cuts; minimum laminate width 250 mm; Please note: 7 mm waste per cross cut.
 Core diameter: 150 mm

POST FORMING PROPERTIES

EGGER Laminate MED with a nominal thickness of 0.60 and 0.80 mm can be postformed in the longitudinal direction – smallest radius ≥ 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. Laminate MED does not contain chlorine or other halogens, and therefore does not cause any consequential fire damage due to the corrosion of 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.

Product Information

More detailed information regarding EGGER laminate can be found in the following documents:

- „Processing instructions EGGER Laminates“
- Technical leaflet „EGGER Pearlescent Laminate“
- Technical leaflet „EGGER Laminate W1001“
- Technical leaflet „EGGER Laminate with Surface Structure ST30
- Technical leaflet „EGGER Laminate Structure ST9 – Perfect Matt“
- Technical leaflet „EGGER Laminate Texture Artwave (A1)“
- Technical leaflet „EGGER Laminate Texture Velvet (88)“
- Technical leaflet „Chemical Resistance EGGER Laminate“
- Technical leaflet „EGGER Laminate Cleaning and Use Instructions“

This Product Data Sheet has been carefully drawn up to the best of our knowledge. The information provided is based on practical experience as well as in-house tests and reflects our current state 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 modifications can result from the continuous further development, as well as from changes in standards and documents originating from statutory bodies. The contents of this Technical Data Sheet should therefore not be considered as instructions for use or as legally binding. Unless otherwise stated, our General Terms and Conditions apply.