

Technical data sheet

EGGER Laminates Flammex Flame Retardant



Description

EGGER Laminates Flammex Flame Retardant are decorative, flame retardant laminates based on curable resins. They have a multi-layered structure and consist of an impregnated decor paper, an underlay and core layers.

Description: EGGER Laminates Flammex Flame Retardant
 Type of material: **HGF** (Horizontal General-Purpose Flame -retardant) according to EN 438-3
 Certification: meets the requirements of building materials class B1 in accordance with DIN 4102-1:1998-05 and the French fire behaviour class M1 in accordance with NF P 92-501

Availability

Decors from the **EGGER Decorative Collection** and the **EGGER Industry Pool** are available made to order and with a minimum order quantity of 260 m² per version. Depending on the nominal thickness, Laminates Flammex Flame Retardant can be supplied in sheets and/or rolls material - see section "Form of delivery".

Technical data

In accordance with the EN 438-3, EGGER Laminates Flammex Flame Retardant are classified as a laminate type **HGF** (Horizontal General-purpose Flame-retardant). This means that the laminate is flame-retardant and can be used for horizontal applications.

Property	Test standard	Unit or feature	Value
Resistance to surface wear*	EN 438-2	Revolutions (min.) Initial point	≥ 150
Resistance to impact by small diameter ball*	EN 438-2	N (min.) 1.20 mm 0.80 mm 0.60 mm	≥ 25 ≥ 20 ≥ 15
Resistance to scratching*	EN 438-2	Rating (min) smooth finishes textured finishes	2 3
Thickness	EN 438-2	mm 1.00 mm < t < 1.20 mm 0.40 mm ≤ t ≤ 1.00 mm	± 0.15 ± 0.10

Property	Test standard	Unit or feature	Value
Length ¹⁾ and width ²⁾	EN 438-2	mm	+ 10 / - 0
Flatness ³⁾	EN 438-2	mm/m (max.)	60
Resistance to dry heat (160 °C)	EN 438-2	Rating (min)	4
Dimensional stability at elevated temperatures	EN 438-2	% max.	
		L ^a	0.55
		T ^b	1.05
Resistance to wet heat (100 °C)	EN 438-2	Rating (min)	4
Resistance to staining	EN 438-2	Rating (min.)	
		Groups 1 and 2	5
		Group 3	4
Lightfastness (Xenon arc lamp)	EN 438-2	Grey scale rating	4 to 5

* Property is relevant for the classification of the material type.

¹⁾ Length tolerance only applies to laminate supplied in sheets, not for rolls.

²⁾ Tolerances for cut-to-size panels shall be agreed between EGGER and purchaser.

³⁾ Provided that the laminate is stored in the manner and conditions recommended by EGGER.

L^a = in the longitudinal direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).

T^b = in the cross-longitudinal direction of the fibrous sheet material (at right angles to direction L).

Form of delivery

Laminates Flammex Flame Retardant can be supplied as roll material or cut to size, depending on the laminate thickness. Our order-related delivery options in overview:

Options EGGER Laminates Flammex Flame Retardant	
Nominal thickness – sheet form	0.60; 0.80 and 1.20 mm
Nominal thickness – roll format	0.60 mm
Maximum length – sheet form	5,600 mm; 50 mm grid
Minimum length – sheet form	800 mm; 50 mm grid
Roll length	200 and 400 m
Maximum width	1,310 mm
Individual width	on request; 10 mm grid
Core diameter	150 mm
Minimum quantity	260 m ²

Technical application note

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 reference colour sample and the customer's test piece is permissible in accordance with EN 438.

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.

For the production of laminates, we only use polymerised resins and materials which do not exhibit any hazardous properties after curing the product and are harmless for the intended use of the product. In particular, free melamine is not contained in Laminates in a concentration that would trigger additional information obligations, for example under Regulation (EC) No. 1907/2006 (REACH). Furthermore, laminates naturally comply with the existing migration thresholds according to Regulation (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food.

Reaction to fire

EGGER Laminates Flammex Flame Retardant meets the specific requirements of building materials class B1 in accordance with DIN 4102-1: 1998-05 as well as the French fire behaviour class M1 in accordance with NF P 92-501. Laminates Flammex Flame Retardant are a surface coating material and usually used for the lamination of laminated bonded boards. When producing a laminate bonded board with a flame-retardant wood-based substrate, it fulfils the special requirements of DIN EN 13501-1 in the case of fire. The requirements can also be met by using a normally flammable raw chipboard in conjunction with special adhesives. Regardless of the substrate and adhesives used, the responsibility for classification remains with the manufacturer of the composite element.

Furthermore, in accordance with Regulation (EU) No. 305 of the European Parliament and of the Council of 9 March 2011 (Construction Products Regulation) § 4, the manufacturer is obliged to create a declaration of performance for the laminate bonded board and a CE marking. Excluded from this obligation are individually manufactured laminate bonded boards that are not produced as a series product.

Please contact us for more detailed information and support with testing.

Care and cleaning recommendation

EGGER Laminates Flammex Flame Retardant do not require any special care due to their resistant and hygienic, dense surfaces. The surfaces are generally easy to clean. This also applies to textured surfaces. Do not use sanitary cleaners or detergents with abrasive components, as using such cleaners may lead to changes in the degree of gloss and/or scratch the material.

For detailed information, please refer to the leaflet "Cleaning and care recommendations for EGGER product surfaces".

Additional documents / Product information

You will find further information in the following documents:

- » Processing Instructions "EGGER Laminates"
- » Technical leaflet "Resistance to chemicals EGGER Laminates"
- » Technical leaflet "Cleaning and care recommendations for EGGER product surfaces"

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 its suitability for specific applications. 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 Laminates Flammex Flame Retardant, as well as from changes to standards and public law documents. The contents of this technical data sheet should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.