

Technical data sheet

EGGER Laminate Flammex



Description

EGGER Laminate Flammex is a flame retardant, 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. A special laminate which meets the specific requirements of building materials class B1 in accordance with DIN 4102-1:1998-05 and the French fire behaviour class M1 in accordance with NFP 92-501 due to the use of special materials.

Areas of application

Laminate Flammex is used exclusively for the lamination of flame retardant substrates such as Eurospan Flammex. The flame retardant laminate bonded boards are used where flame retardant construction products are required.

Product versions / Availability

Decors from the EGGER Collection Decorative and the Industry collection are produced to order, subject to a minimum order quantity of 260 m² per decor. Depending upon the nominal thickness, the laminate can be delivered in sheet form and/or roll format.

Overview of our order-specific delivery options

Nominal thickness range; sheet format	0.60 and 0.80 mm
Nominal thickness; roll format	0.60 mm
Maximum width:	1,310 mm
Maximum length	5,600 mm
Minimum length	800 mm
Roll length	200 and 400 m
Core diameter	150 mm
Individual widths	upon request
Minimum quantity	260 m ²

Fire behaviour

EGGER Laminate Flammex 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. EGGER Laminate Flammex is a building material usually used for the lamination of laminated bonded boards.

In the event of a fire, the laminated bonded boards meet the special requirements of EN 13501-1, provided the following materials are used:

Substrate: Eurospan Flammex
 Glue system: flame retardant resorcinol resin glue
 Lamination: EGGER Laminate Flammex

In accordance with DIN EN 13501-1 the reaction to fire classification of these laminate bonded boards is: B

The additional classification in relation to smoke production is: s2

The additional classification in relation to flaming droplets is: d0

The fire behaviour classification format of the building product is:

Fire behaviour	Smoke production		Flaming droplets/particles	
B	s	2	d	0

Quality characteristics/Technical data

In accordance with EN 438-3:2016, EGGER Laminate Flammex is classified as an HGF laminate (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
Thickness	EN 438-2:2016	mm	± 0.10
Length ¹⁾ and width	EN 438-2:2016	mm	+10/-0
Flatness	EN 438-2:2016	mm/m (max.)	60
Resistance to surface wear	EN 438-2:2016	Revolutions (min.) Initial point	150
Resistance to impact by small diameter ball	EN 438-2:2016	N (min)	≥ 20
Resistance to scratching	EN 438-2:2016	Rating (min) smooth finishes textured finishes	2 3
Resistance to water vapour	EN 438-2:2016	Rating (min.) gloss finish other finishes	3 4
Resistance to dry heat (160 °C)	EN 438-2:2016	Rating (min.) gloss finish other finishes	3 4
Dimensional stability at elevated temperatures	EN 438-2:2016	% max. L ^a T ^b	0.55 1.05

Property	Test standard	Unit or feature	Value
Resistance to wet heat (100 °C)	EN 438-2:2016	Rating (min.) gloss finish	3
		other finishes	4
Resistance to staining	EN 438-2:2016	Rating (min.)	5
		Groups 1 and 2	4
		Group 3	4
Lightfastness (Xenon arc lamp)	EN 438-2:2016	Grey scale rating	4 bis 5

L³ = in the longitudinal direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).

T⁹ = in the cross-longitudinal direction of the fibrous sheet material (at right angles to direction L).

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

Storage / Fabrication

Information concerning storage and processing is available in the processing instructions "EGGER Laminates".

Care and cleaning recommendation

Due to its resistant, hygienic and dense surface, EGGER Laminate does not require any special form of care. The surface is generally easy to clean. Do not use sanitary cleaners or detergents with abrasive components, as such cleaners may lead to changes in the gloss level and/or scratching of the material.

More detailed information can be found in our leaflet "EGGER Laminate Cleaning and Use Instructions".

Additional documents / Product information

You will find further information in the following documents:

- "Processing Instructions EGGER Laminates"
- Technical leaflet "EGGER Laminate with Pearlescent Decor"
- Technical leaflet "EGGER Laminate with Protective Film"
- Technical leaflet "EGGER Laminate surfaces"
- Technical leaflet "Chemical Resistance EGGER Laminate"
- Technical leaflet "EGGER Laminate Cleaning and Use Instructions"

Provisional note:

This technical datasheet 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, 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.