

Technical data sheet

EGGER Compact Laminates Black Core



Description

EGGER Compact Laminates Black Core are decorative compact laminates based on curable resins. They have a multi-layered structure and consist of impregnated decorative papers and several impregnated core layers.

- Description: EGGER Compact Laminates Black Core
- Type of material: **CGS** (Compact General-Purpose Standard) according to EN 438-4
ACS (Pearlescent laminate Compact Standard grade) according to EN 438-8
- Application: wall cladding, cabin and partition constructions, work surfaces in offices and kitchens

Availability

EGGER Compact Laminates Black Core are part of the **EGGER Decorative Collection** in the nominal thicknesses of 3, 4, 5, 6, 8, 10, 12 and 13 mm. They are available in selected decors from stock and in quantities of one, according to the country-specific delivery lists. Further decors are produced with a minimum order quantity and always made to order – see section “Delivery form”.

Technical data

In accordance with the EN 438-4, EGGER Compact Laminates Black Core are classified as a compact laminate type **CGS** (Compact General-Purpose Standard). This means that the compact laminate can be used for horizontal applications in the interior.

Compact laminates with full-surface pearlescent decors are classified as type **ACS** (Pearlescent laminate Compact Standard grade) in accordance with EN 438-8. Compact laminates type ACS are only suitable for vertical applications.

Property	Test standard	Unit or feature	Value	
			CGS (Rec. 960)	ACS (Rec. 965)
Resistance to surface wear*	EN 438-2	Revolutions (min.) Initial point	≥ 150	-
Resistance to impact by large diameter ball*	EN 438-2	Drop height in mm		
		2 mm ≤ t < 6 mm	1,400	800
		6 mm ≤ t	1,800	800
		Impact diameter in mm	≤ 10	≤ 12
Resistance to scratching*	EN 438-2	Rating (min)	3	2

Property	Test standard	Unit or feature	Value	
			CGS (Rec. 960)	ACS (Rec. 965)
Thickness	EN 438-2	mm		
		nominal thickness 12 and 13 mm	± 0.60	
		nominal thickness 8 and 10 mm	± 0.50	
		nominal thickness 5 and 6 mm	± 0.40	
		nominal thickness 3 and 4 mm	± 0.30	
Length and width ¹⁾	EN 438-2	mm	+ 10 / - 0	
Flatness ²⁾	EN 438-2	mm/m (max.)		
		2.0 mm ≤ t < 6.0 mm	8.0	
		6.0 mm ≤ t < 10.0 mm	5.0	
		10.0 mm ≤ t	3.0	
Resistance to water vapour	EN 438-2	Rating (min)	4	3
Resistance to dry heat (160 °C)	EN 438-2	Rating (min)	4	-
Resistance to wet heat (100 °C)	EN 438-2	Rating (min)	4	-
Resistance to immersion in boiling water	EN 438-2	Mass increase % (max.)		
		2 mm ≤ t < 5 mm	5.0	5.0
		t ≥ 5 mm	2.0	2.0
		Thickness increase % (max.)		
		2 mm ≤ t < 5 mm	6.0	6.0
		t ≥ 5 mm	2.0	2.0
Rating (min.)		Surface	4	4
		Edge	3	3
Dimensional stability at elevated temperatures	EN 438-2	cum. dimensional change % (max.)		
		2 mm ≤ t < 5 mm	L ^a 0.40	0.40
			T ^b 0.80	0.80
		t ≥ 5 mm	L ^a 0.30	0.30
		T ^b 0.60	0.60	
Resistance to staining	EN 438-2	Rating (min.)		
		Groups 1 and 2	5	5
		Group 3	4	4
Lightfastness (Xenon arc lamp) ³⁾	EN 438-2	Grey scale rating		
		Surface	4 bis 5	4
Resistance to crazing	EN 438-2	Rating (min.)		
		Surface	4	4
		Edge	3 ⁴⁾	3 ⁴⁾
Density	EN ISO 1183-1	g/cm ³	≥ 1.30	
Flexural modulus	EN ISO 178	MPa	9,000	
Flexural strength	EN ISO 178	MPa	80	
Fire behaviour ⁵⁾	EN 13501-1	Euro class	D-s2,d0	

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

¹⁾ Tolerances for cut-to-size panels shall be agreed between EGGER and purchaser.

²⁾ Provided that the compact laminates are stored in the manner and conditions recommended by EGGER. The established flatness values apply to compact laminate with decor on two sides. The limits for compact laminate with decor on one side need to be agreed upon.

³⁾ Extraneous darkening and/or photochromism are due to the shock effect of accelerated exposure, and are not characteristics of natural exposure.

⁴⁾ Moderate fractures run along the edges of the test specimen.

⁵⁾ According to EN 438-4 Table A.1 - typical classifications of fire behaviour according to EN 13501-1 for compact laminates (fire behaviour CWFT).

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

Our order-related delivery options for Compact Laminates Black Core in overview:

Options EGGER Compact Laminates Black Core	
Nominal thickness range	3 to 13 mm
Maximum length	5,600 mm
Maximum width	2,060 mm
Standard format	2,790 x 2,060 mm / 5,600 x 2,060 mm
Pearlescent decors	Compact laminates are manufactured with <u>one decorative side</u> ; The reverse side is finished as a balancer without a pearlescent effect

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 Compact laminates we only use polymerised resins 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 Compact laminates in a concentration that would trigger additional information obligations, for example under Regulation (EC) No. 1907/2006 (REACH). Furthermore, Compact 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.

Care and cleaning recommendation

EGGER Compact Laminates Black Core 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 Compact Laminates"
- » Technical leaflet "Resistance of EGGER surfaces to disinfectant"
- » 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 Compact Laminates Black Core, 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.