

# PRODUCT DATA SHEET

## EGGER COMPACT LAMINATE FLAMMEX EUROCLASS B



### Material

In accordance with DIN EN 438-4:2005, EGGER Compact Laminates Flammex Euroclass B are high pressure laminates with a black core. The compact laminates are constructed by fusing multiple layers and consist of melamine resin impregnated decor papers and several phenolic resin impregnated core layers.

### Fire behaviour

In the event of fire, EGGER Compact Laminate Flammex Euroclass B meets the specific requirements of DIN EN 13501-1.

In accordance with DIN EN 13501-1:2007 the reaction to fire classification of EGGER Compact Laminate Flammex Euroclass B 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	
	s	2	d	0
B	s	2	d	0

viz. → **B – s2, d0**

### Quality characteristics / Technical data

In accordance with DIN EN 438-4:2005, EGGER Compact Laminates Flammex Euroclass B are classified as Type **CGF** (Compact General-purpose Flame-retardant). In EN 438-8:2009, full pearlescent decors are defined as pearlescent decorative design laminates and flame-retardant compact laminates are classified as type **ACF** (Pearlescent laminate Compact Flame-retardant). The following recommendations apply to compact laminates type ACF:

- To achieve the optimum aesthetic effect from the pearlescent pigment a protective melamine layer – overlay – is not used.
- As a result some surface properties are reduced (e.g. scratch- and wear resistance); therefore it is recommended that these products are used for vertical applications.

Properties	Standard	Unit	Type	
			CGF	ACF
Density	EN ISO 1183-1	g/cm <sup>3</sup> (min.)	1.35	1.35
Resistance to surface wear	EN 438-2:10	revolutions (min.)		
		initial point	150	-
		wear value	350	-

Properties	Standard	Unit	Type		
			CGF	ACF	
Resistance to impact by large diameter ball	EN 438-2:21	Drop height in mm (min.)			
		2 mm ≤ t < 6 mm	1,400	800	
		6 mm ≤ t	1,800	800	
		Indent diameter in mm (max.)	10	12	
Resistance to scratching	EN 438-2:25	Rating (min.)	3	2	
Resistance to dry heat (180 °C)	EN 438-2:16	Rating (min.)	4	-	
Resistance to wet heat (100 °C)	EN 12721:1997	Rating (min.)	4	-	
Resistance to immersion in boiling water	EN 438-2:12	Increase in mass % (max.)			
		2 mm ≤ t < 5 mm	5.0	5.0	
		t ≥ 5 mm	2.0	2.0	
		Increase in thickness in % (max.)			
		2 mm ≤ t < 5 mm	6.0	6.0	
		t ≥ 5 mm	2.0	2.0	
		Appearance in rating (min.)	4	4	
Dimensional stability at elevated temperature	EN 438-2: 17	Cumulative dimensional in % (max.)			
		2 mm ≤ t < 5 mm	L <sup>b</sup>	0.40	0.40
			T <sup>c</sup>	0.80	0.80
		t ≥ 5 mm	L <sup>b</sup>	0.30	0.30
			T <sup>c</sup>	0.60	0.60
		Resistance to staining Groups 1 and 2 Group 3	EN 438-2: 26	Rating (min.)	5
	4			4	
Light fastness (Xenon-arc)	EN 438-2:27	Grey scale rating (min.)	4 to 5	4 <sup>c</sup>	
Resistance to water vapour	EN 438-2:14	Rating (min.)	4	3	
Resistance to cigarette burns	EN 438-2:30	Rating (min.)	3	-	
Resistance to crazing	EN 438-2:24	Rating (min.)	4	4	
Flexural modulus	EN ISO 178	MPa (min.)	9,000	9,000	
Flexural strength	EN ISO 178	MPa (min.)	80	80	
Tensile strength	EN ISO 527	MPa (min.)	60	-	
Flatness <sup>a)</sup>	EN 438-2:9	Depending upon thickness in mm/m			
		2.0 mm ≤ t < 6.0 mm	8.0	8.0	
		6.0 mm ≤ t < 10.0 mm	5.0	5.0	
		10.0 mm ≤ t	3.0	3.0	

<sup>a)</sup> The specified flatness values apply to compact laminates with two decorative faces. Limits for compact laminates with one decorative face shall be agreed between the supplier and customer.

<sup>t</sup> nominal thickness of the compact laminate

<sup>L<sup>b</sup></sup> longitudinal direction or length of the compact laminate

<sup>T<sup>c</sup></sup> Cross-longitudinal direction or width of the compact laminate

<sup>c</sup> Extraneous darkening and/or photocromism are due to the shock effect of accelerated exposure and are not characteristics of natural Exposure

## Dimensions / Tolerances

### DIMENSIONS

Thickness spectrum:	5, 6, 8, 10, 12 and 13 mm
Maximum length:	5,600 mm
Maximum width:	2,060 mm

### TOLERANCES

Nominal thickness [mm]	Thickness tolerance [mm]	Length tolerance [mm]	Width tolerance [mm]
5	± 0.40	+10/-0	+10/-0
6	± 0.40	+10/-0	+10/-0
8 and 10	± 0.50	+10/-0	+10/-0
12 and 13	± 0.60	+10/-0	+10/-0

## Care and cleaning recommendations

Due to their resistant and hygienic, homogenous surfaces, EGGER Compact Laminates Flammex Euroclass B do not require any special form of care. This also applies to textured surfaces. **More detailed information can be found in our leaflet “EGGER Laminate Cleaning and Maintenance Instructions”.**