

# PRODUCT DATA SHEET

## EGGER COMPACT LAMINATE



### Material

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

### Quality characteristics / Technical data

In accordance with DIN EN 438-4:2005, EGGER Compact Laminates are classified as Type **CGS** (Compact General-purpose Standard). In EN 438-8:2009, full pearlescent decors are defined as pearlescent decorative design laminates and compact laminates are classified as type **ACS** (Pearlescent laminate Compact Standard grade). The following recommendations apply to compact laminates type ACS:

- 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	
			CGS	ACS
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 wear value	150 350	- -
Resistance to impact by large diameter ball	EN 438-2:21	Drop height in mm (min.) 2 mm ≤ t < 6 mm 6 mm ≤ t Indent diameter in mm (max.)	1,400 1,800 10	800 800 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 t ≥ 5 mm Increase in thickness in % (max.) 2 mm ≤ t < 5 mm t ≥ 5 mm Appearance in rating (min.)	5.0 2.0 6.0 2.0 4	5.0 2.0 6.0 2.0 4

Properties	Standard	Unit	Type	
			CGS	ACS
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	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	8.0	8.0
		2.0 mm ≤ t < 6.0 mm	5.0	5.0
		6.0 mm ≤ t < 10.0 mm	3.0	3.0
		10.0 mm ≤ t		

<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.

**t** nominal thickness of the compact laminate

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

**T<sup>c</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 <sup>2)</sup> [mm]	Width tolerance <sup>2)</sup> [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

<sup>2)</sup> Die Toleranzen für zugeschnittene Kompaktplatten müssen vereinbart werden.

## Care and cleaning recommendations

Due to their resistant and hygienic, homogenous surfaces, EGGER Compact Laminates 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”.**