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Technical data sheet

EGGER Decorative TFL Boards

Material description: EGGER Decorative TFL panels are ideal for vertical and horizontal furniture and interior design applications, including cabinets doors, closet systems, office furniture, store fixtures and architectural wall paneling. Our pre-fabricated panels have resin-infused decorative paper permanently bonded onto both sides, and can be easily cut and edge banded, saving you time and money.
Possible substrates: EGGER Raw Particleboard and EGGER Raw MDF.

Surface properties

Property	Test method	Unit	Value	
Surface defects	ISO 4586-2	[mm²/m²] [mm/m²]	≤ 2 spot-type defects ≤ 20 hair-like defects	
Edge defects	EN 14322	[mm]	≤ 10	
Resistance to scratching	ISO 4586-2	[rating]	≥ 2 ≥ 1 if pearlescent décor effect	
Resistance to staining	ISO 4586-2 (Method A)	[level]	Group 1 & 2 ≥3	
Resistance to surface wear	ISO 4586-2	[Revolutions]	Class	IP
			1 (print decors incl. pearlescent)	< 50
			3A (print decors with overlay, solid decors <120 g/m2)	≥ 150
			3B (solid decors ≥120 g/m2)	≥ 250
Formaldehyde content		[class]	EPA TSCA Title VI certified – Carb 2 certified	
Light fastness	ISO 4586-2	[level]	≥ 4 grey scale	

Dimensional properties

	Test method	Unit	Board thickness		
			1/4" – 19/32" (6.3 to 15.0 mm)	>19/32" – 3/4" (>15.0 to 19.0 mm)	>3/4" (>19.0 mm)
Thickness ▪ Standard boards	ISO 4586-2	[inch]	±0.012 (±0.3 mm) for Class 1 +0.020/-0.012 (+0.5 mm/-0.3 mm) for Class 3A, 3B		±0.020 (±0.5 mm)
▪ Boards with multi-layer surface total thickness[*1)]	ISO 4586-2	[inch]	±0.020 (±0.5 mm)		

	Test method	Unit	Board thickness		
			1/4" – 19/32" (6.3 to 15.0 mm)	>19/32" – 3/4" (>15.0 to 19.0 mm)	>3/4" (>19.0 mm)
Length and width					
▪ commercial available size	ISO 4586-2	[inch]	±0.20 (±5 mm)	±0.20 (±5 mm)	±0.20 (±5 mm)
▪ pre-cut panels	ISO 4586-2	[inch]	±0.10 (±2.5 mm)	±0.10 (±2.5 mm)	±0.10 (±2.5 mm)
Flatness*2)	ISO 4586-2	[inch]	--	≤0.08 (≤2 mm)	≤0.08 (≤2 mm)

*1) Tolerances total thickness: The total thickness is defined as the substrate thickness including the coatings on both sides of the boards.
*2) Flatness: Valid for equally balanced weight of decorative papers on both sides.

Fire behavior

	Core board/Substrate	Single layer	Classification CAN/ULC S102	Classification acc. to ASTM E84
Decorative TFL	EGGER Raw Particleboard	X	FSR 115-155 SDI 55-140	C
Decorative MDF	Raw MDF	X	N/A	C

EGGER Decorative TFL – thickness information (example ¾" or 19 mm)

	Decorative Boards	Decorative Multilayer ML03 (Feelwood)
Nominal total thickness	3/4" (19.0 mm)	3/4" (19.0 mm)
Actual total thickness	3/4" (19.0 mm)	49/64" (19.6 mm)

EGGER Decorative Multilayer product range

Board type	Applications	Advantages
EGGER Decorative Multilayer ML	Furniture elements and fittings with increased surface requirements (fronts, doors) ML = multilayer structure with brown barrier paper	High impact resistance and flexural strength, very good surface stability

Melamine resins

For the coating of Decorative boards, we only use polymerized 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 Decorative boards in a concentration that would trigger additional information obligations, for example under Regulation (EC) No. 1907/2006 (REACH). Furthermore, Decorative boards 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.

Color matching and surface texture

Slight color 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 color uniformity. A slight (level 4) or, in the case of mother-of-pearl decors, moderate (level 3) deviation in color and surface between the EGGER master sample and the customer's test piece is permissible in accordance with EN 14322.

Due to the production that differs by product, color 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 color, order a sample in the relevant product.

Resistance against heat

The resistance against heat of Decorative boards differs between long and short periods of heat exposure. For long and continuous periods of heat exposure, a maximum temperature of 122°F (50°C) is applicable. We kindly advise that continuous exposure in temperatures of over 122°F (50°C) may result in surface defects such as cracks.
Installations of technical equipment that emit heat, for instance Laptops, require an appropriate distance between heat source and surface to avoid heat accumulation and allow air and temperature circulation.

General information

Careful checks of incoming materials is an essential part of any commercial transaction. EGGER recommends proceeding with these checks according to common statistical methods. Handling and storage of Decorative TFL boards has to be done with care. The boards should advisably be stored on a flat and dry base in a closed building. The panels must be stored in a frost-protected surrounding, preferred within temperature of 68°F (20°C) and 65% relative humidity. For storage in divergent conditions, we recommend additional packaging of the materials such as shrink-wrapping to ensure stable quality. We recommend conditioning the final products according to the expected in-room climate prior to installation. For further information, please visit www.egger.com.