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Technical data sheet

EGGER Decorative Boards
EGGER Decorative Multilayer Boards
EGGER Decorative Flammex Boards

Material description: EGGER Decorative Boards offer a variety of decors with a coordinating surface texture. A selection of core boards and the possibility of different coating structures extends the range. Characterised by optimal surface properties the boards are easy to process without damaging tools.
Possible substrates: EGGER Raw Chipboard, EGGER Raw MDF, EGGER Raw Lightweight Boards

Surface properties according to EN14322

Surface properties	Test method	Unit	Value	
Surface defects				
• points	EN 14323	[mm²/m²]	≤2	
• length	EN 14323	[mm/m²]	≤20	
Resistance to scratching	EN 14323	[N]	≥1,5*1)	
Resistance to staining	EN 14323	[level]	≥3 Group 1 + 2	
Resistance to cracking	EN 14323	[level]	≥3 at 70°C and 24 hours	
Resistance to abrasion Depending in the layer configuration different classes are reached	EN 14323	[Revolutions]	Class	IP
			1 (print décor (H+F) incl. pearlescent)*2)	<50
			3A (print decors (H+F) with overlay & solid decors ((U+W) <120 g/m2)	≥150
			3B (solid decors (U+W) ≥120 g/m2)	≥250
Antimicrobial property	ISO 22196	[level]	certified antimicrobial property	
Resistance to colour change (Xenon arc light)	EN 438-2	[level]	≥4 grey scale	

Dimensional properties according to EN14322

	Test method	Unit	Thickness range		
			<15mm	15 up to 20mm	>20 mm
Thickness					
• Standard boards	EN 14323	[mm]	±0,3 for Class 1 +0,5/-0,3 for Class 3A, 3B		±0,5
• Boards with multilayer total thickness*3)	EN 14323	[mm]	±0,5		±0,5
Length and width					
• commercial available size	EN 14323	[mm]	±5	±5	±5
• pre-cut panels	EN 14323	[mm]	±2,5	±2,5	±2,5
Flatness	EN 14323	[mm/m]	--	≤2*4)	≤2*4)

	Test method	Unit	Thickness range		
			<15mm	15 up to 20mm	>20 mm
Edge damage					
• commercial available size	EN 14323	[mm]	≤10	≤10	≤10
• pre-cut panels	EN 14323	[mm]	≤3	≤3	≤3

Fire behaviour

	Core board/Substrate	Single layer & Multilayer	Classification acc. to EN13986
Decorative Chipboards Decorative Multilayer Chipboards	Raw Chipboard (density ≥ 600 kg/m³)	X	D-s2, d0 (≥9mm)*5)
Decorative MDF Decorative Multilayer MDF	Raw MDF (density ≥ 600 kg/m³)	X	D-s2, d0 (≥9mm)*5)
	Core board/Substrate	Multilayer	Classification acc. to EN13501-1
Decorative Flammex Boards	Raw Chipboard E1E05 TSCA P2	X	B-s1,d0 (8-38mm)
	Raw Chipboard E1 P2 Raw MDF E1E05 TSCA ST	X	B-s2,d0 (12-38mm) B-s2,d0 (12-28mm)

EGGER Decorative Multilayer Boards – properties*6)

	Standard	Unit	Decorative Multilayer Boards ML/MW06
Thickness of surface coating	EN 14322	[mm]	~0,60
Modulus of elasticity	EN 310	[N/mm2]	≥3.500
Impact resistance – small ball test	EN 438-2	[N]	≥20

EGGER Decorative Boards – thickness information (example 19 mm)

	Decorative Boards	Decorative Multilayer Boards ML03 (Feelwood)	Decorative Flammex Boards FR03	Decorative Multilayer Boards ML/MW06
Nominal total thickness	19,0 mm	19,0 mm	19,0 mm	19,0 mm
Actual total thickness	19,0 mm	19,6 mm	19,6 mm	20,2 mm

EGGER Decorative Multilayer & Flammex Flame Retardant Boards product range

Board type	Applications	Advantages
Decorative Multilayer Boards HR	Furniture elements and fittings with increased abrasion resistance (desks, special work surfaces) HR = multilayer structure with transparent overlay paper Not available for pearlescent, Uni and White decors*7)	High abrasion resistance
Decorative Multilayer Boards ML/MW	Furniture elements and fittings with increased surface requirements (fronts, doors) ML = multilayer structure with brown barrier paper MW = multilayer structure with white barrier paper => only available for White decors.	High impact resistance and flexural strength, very good surface stability
Decorative Flammex Boards FR03	Furniture elements and fittings with increased fire retardancy (wall or ceiling cover) FR03 = multilayer structure with special fire retardant underlay on both sides. The final thickness of all coated Flammex panels increases by 0,6 mm. Not available with overlay or additional ML/MW underlay.	Fire retardant effect

*1) Scratch resistance: Not including decors with pearlescent effect.
*2) Abrasion class 1: application of Decorative Boards as tabletops only with moderate stress
*3) Tolerances total thickness: The total thickness is defined as the substrate thickness including the coatings on both sides of the boards.
*4) Flatness: Valid for equally balanced weight of decorative papers on both sides.
*5) Without air gap behind the wood-based material.
*6) Decorative Multilayer Boards: tested with 19 mm thick EN312-P2 particleboard core board.
*7) Exceptions only after technical feasibility check and approval from the respective production plant.

Formaldehyde emission classes

The Formaldehyde emission classes depend on the used substrate. Information in regards to the Formaldehyde emission of your preferred substrate can be found in the technical datasheets of our substrates. Please visit www.egger.com for further information.

Melamine resins

For the coating of Decorative Boards, 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 Decorative Boardsa 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.

Colour matching and surface texture

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 slight (level 4) or, in the case of mother-of-pearl decors, moderate (level 3) deviation in colour 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, 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.

Resistance against heat

The resistance against heat of Decorative Boards differ between long and short periods of heat exposure. For long and continuous periods of heat exposure, a maximum temperature of 50°C (122°F) is applicable. We kindly advise that continuous exposure in temperatures of over 50°C (122°F) 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.

Antimicrobial property

The hygienically sealed and closed surface of this product is 99.9% virus, germ and bacteria free 24 hours after being cleaned and sanitized. The product does not contain a known substance that is intended to prevent, destroy, repel or mitigate a pest, and our product is not a device that is intended to trap, destroy, repel or mitigate pests.

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 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 20°C (68°F) 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.