

FREEMARK

UV LACQUERED MDF PANEL

MDF (Medium Density Fiberboard), according to EN 622-5 standard, non-load-bearing, for use in dry conditions, for interior fitments (including furniture), melamine faced on surfaces with melamine decorative papers and UV lacquered on one side.

FREEMARK UV lacquered MDF have **CE** marking, according to EN 13986, TSCA CARB P2 certification, "E05" formaldehyde emission level and, on request, FSC® Mix Credit claim.

TECHNICAL CHARACTERISTICS OF UV LACQUERED PRODUCT *

RESISTANCE TO SCRATCHING	EN 14323	≥ 4N
CROSS-CUT	EN ISO 2409	Class 0-1
RESISTANCE TO COLD LIQUIDS	CEN-TS 16209; EN 12720	Class ≥ A
RESISTANCE TO DRY HEAT 140°C	EN 12722	Class ≥ B
RESISTANCE TO WET HEAT 100°C	CEN-TS 16209; EN 12721	Class ≥ A
LIGHT FASTNESS	EN 15187	≥ 4 grey scale
RESISTANCE TO WATER VAPOUR	EN 14323	Class ≥ 3 (glossy) Class ≥ 5 (matt)
GLOSS LEVEL 60°	EN ISO 2813	92 ± 5 GU (glossy) 3 ± 2 GU (matt)
EDGE DAMAGE	EN 14322, EN 14323	≤ 10 mm, ≤ 3 mm for pre-cut panels
DIMENSIONAL TOLERANCES	THICKNESS	EN 14322, EN 14323
	LENGTH AND WIDTH	EN 14322, EN 14323
FLATNESS (Balanced surfaces, thickness ≥ 15mm)	EN 14322, EN 14323	≤ 2 mm/m
FORMALDEHYDE RELEASE	EN 13986, EN 14322, EN ISO 12460-3	≤ 3,5 mg/(m²h), Classe E1 (EN 13986)
	BAnz AT26.11.2018 B2 EN ISO 16516	≤ 0,1 ppm, Classe E1 (BAnz AT26.11.2018 B2 - E05)
	EPA TSCA Title VI ASTM E1333-96	≤ 0,11 ppm (CARB P2 – EPA TSCA Title VI)
CLASS OF REACTION TO FIRE	EN 13986 EN13501-1	Details within the DOP document

* Values reported herein are related to a standard product configuration. For customized products please contact our sales office.

** The additional nominal thicknesses due to the textures are listed inside Cleaf website <https://cleaf.it/en/textures/>.

TECHNICAL CHARACTERISTICS OF MEDIUM DENSITY FIBERBOARD

COMPOSITION		Virgin wood fibers of mixed essences					
DENSITY		EN 323	700 – 850 Kg/m³				
MOISTURE CONTENT		EN 622-1, EN 322	4 – 11 %				
NOMINAL VALUES BY THICKNESS GROUP			>6mm ≤9mm	>9mm ≤12mm	>12mm ≤19mm	>19mm ≤30mm	>30mm ≤38mm
MIN BENDING STRENGTH	[N/mm²]	EN 622-5, EN 310	23	22	20	18	17
MIN MODULUS OF ELASTICITY	[N/mm²]	EN 622-5, EN 310	2700	2500	2200	2100	1900
MIN INTERNAL BOND	[N/mm²]	EN 622-5, EN 319	0,65	0,60	0,55	0,55	0,50
MAX SWELLING IN THICKNESS, 24h	[%]	EN 622-5, EN 317	17	15	12	10	8



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ON REQUEST

FREEMARK UV lacquered MDF with claim FSC® Mix Credit ICILA-COC-000343



STORAGE, HANDLING AND PROCESSING

Store and handle the product carefully, in a closed building with a dry, level floor, at a temperature between 10°C and 50°C and 65% relative humidity. Do not expose to direct sunlight. If conditions are different, pack the product.

The maximum stacking height is 1,5 m.

Use vacuum handling systems. Avoid manual handling and the use of pushers on conveyor belts. Machinery and processing equipment should feature suitable dust extraction systems.

Remove the protective film immediately after processing and in any case no later than 5 months after delivery to avoid film residues.

Before installing the product, condition it to the climate of use.



RECOMMENDATIONS FOR USE

Colours and gloss matching

Slight differences in colour and/or gloss are allowed in the same product due to raw material tolerances. Components used next to each other must therefore be checked for colour and gloss uniformity. A deviation in colour and/or gloss between reference and delivered material is permissible in accordance with EN 14322.

Different products with the same decorative effect may show aesthetic unevenness due to the different manufacturing technology (e.g. panels, laminates, edge bands). Please request samples for personal evaluation before placing your first order.

Product Aesthetics

The surface of the product may have small imperfections and/or irregularities due to the manufacturing process, at the rate of 1 defect size of 1mm² per square metre. Basically, imperfections and/or unevenness that are not visible from a distance of 70cm are not considered as defects.

Resistance to heat

The heat resistance of lacquered panels varies depending on the duration of exposure. Continuous exposure to temperatures above 50°C may result in surface defects (cracks).

Technical equipment that emits heat, such as laptops, must be installed at an adequate distance from the surface of the panels to allow air circulation, thus preventing heat build-up and the consequent increase in temperature.



CLEANING AND MAINTENANCE

For cleaning, use only soft cloths and common household hygiene products.

It is recommended not to spray products directly onto the surface, as this can cause halos.

In case of no-rinse cleaning agents, apply the detergent to a soft cloth and wipe the surface. In case of cleaning agents to be rinsed off, apply the detergent to a damp soft cloth, clean, rinse with water to remove any residue, then wipe the surface with a soft cloth to avoid possible deposits of limescale from water.

Avoid using abrasive products and sponges, including melamine sponges (magic sponge), bleach or strongly chlorinated products, strong acids or bases. The use of cleaning products or sponges with an abrasive effect can lead to long-term polishing and loss of the products resistance characteristics.

This technical data sheet has been drawn up in accordance with the current state of our knowledge and technical characteristics of the materials, however it is for informational purposes only and does not in any case represent a kind of guarantee even regarding the suitability for specific applications or regarding the properties of the products. This sheet is mainly based on the practical experience of our technicians as well as on internally conducted tests and therefore does not constitute an incontrovertible scientific proof. Cleaf SPA therefore assumes no responsibility for any technical and/or application errors, inaccuracy in the application of standards or regulations or even misprints. Finally, we point out that this sheet may be outdated due to technical changes because of the continuous development of Cleaf SPA products, as well as changes in scientific and technical standards or on the base of the introduction of new regulations applicable to the reference industry. In light of the above, the content of the processing instructions cannot act neither as a manual for the use of the products nor for their applications nor as an element of identification of the object of the legally binding contract between the parties.