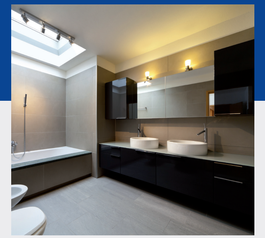
MAXXIGLOSS

Super high gloss (over 92 gloss), **non-PVC** plastic laminate with special surface treatment to enhance **scratch resistance** (class 5 Martindale test) and **chemical resistance** (class 1B DIN 68861).
Applied to **MDF panels or fibreboard** using 1D technology, it is ideal for the production of components for the kitchen, bedroom, bathroom or living-room sectors. **Color reproducibility** and **fastness in time**, certified TUV Rheinland DIN EN 15187, make it an **extremely durable product** thanks to its high resistance to the light.

MAXXIMATT

Super high opacity (5 gloss), **non-PVC** plastic laminate with special surface treatment to enhance **scratch resistance** (class 5 Martindale test) and **chemical resistance** (class 1B DIN 68861). It is applied to **MDF panels or fibreboard** using 1D technology. Special **sensorial characteristics**, thanks to soft, velvety touch surface with "no fingerprint" effect, make this finish suitable for the production of components for the kitchen, bedroom, bathroom or living-room sectors. **Color reproducibility** and **fastness in time**, certified TUV Rheinland DIN EN 15187, make it an **extremely durable product** thanks to its high resistance to the light.



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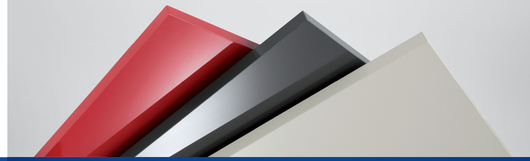
OPERA 3B



MAXXIGLOSS | MAXXIMATT

NEW EXTREMELY
DURABLE SURFACES

OPERA 3B

OVER
92
GLOSS

MAXXIGLOSS OPERA 3B

- EXTREMELY FLAT GLOSSY AND MIRROR LIKE SURFACE
- NO ORANGE PEEL EFFECT
- HIGH SCRATCH RESISTANCE
- HIGH CHEMICAL RESISTANCE AGAINST LIQUIDS, DETERGENTS AND STAINS

BELOW
5
GLOSS

MAXXIMATT OPERA 3B

- EXTREMELY MATT AND SOFT TOUCH EFFECT
- HIGH SCRATCH RESISTANCE
- HIGH CHEMICAL RESISTANCE AGAINST LIQUIDS, DETERGENTS AND STAINS

MAXXIGLOSS AND **MAXXI**MATT:
MDF BOARDS LAMINATED WITH A HARD COATED SCRATCH RESISTANT SURFACE FOR FURNITURE APPLICATIONS WITH HIGH GLOSS OR SUPER MATT FINISHES.

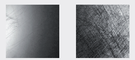
OPERA 3B

HIGH SCRATCH RESISTANCE

CLASS 5/5 (MARTINDALE SCRATCH)

The surface is tested with the Martindale Microscratch testing machine which is performing 160 rubs on the surface of the material with nylon/aluminia abrader material (scotch-brite® 7440).

The surface of MAXXIGLOSS is rated level 5 (best result).



MAXXIGLOSS

UV LACQUERED MELAMINE

MARTINDALE ABRASION AND SCRATCH RESISTANCE TEST (ISO 12947-1)

SCOPE: Assessment of the surface resistance to micro scratching relating to the rigid surfaces of finished furniture.

TESTING PARAMETERS:
Number of cycles: 160
Applied load: 4 N (413 Grams)
Abrader material: = Scotch-Brite 7440 (nylon web with aluminia abrasive)

TEST PROCEDURE: The testing machine is performing 160 rubs on the surface of the tested material. After finishing, the material is removed and a visual assessment is performed in evenly diffused artificial daylight at viewing distance of 0,5 m.

HIGH CHEMICAL RESISTANCE

1B CLASS

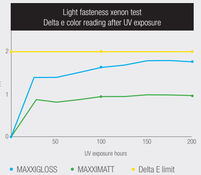
The surface is tested according to the most demanding requirements and it fulfills the highest resistance required for the furniture industry.

COLOR STABILITY

GREY SCALE >4
BLUE WOOL SCALE >6

The color does not fade during the years because the pigments are perfectly stable at UV light exposure and the surface is coated with an anti-fading lacquer.

Internal tests with exposure over 200 hours in Xenon Chamber certify that every color is perfectly stable.



This avoids any problem when new panels have to be added to existing compositions or defected parts have to be substituted.

The color never changes between production batches. This means that the product delivered to the customer will always match the first delivery.

NO COLOR DEVIATION
FROM BATCH TO BATCH

This allows customers to mix different product deliveries within the same furniture with no visible differences.

100 HOURS TEST
=
2 YEARS OUTDOOR SUNLIGHT

PRODUCT TRACEABILITY

The melamine backside of each panel is marked on several positions with a specific code for after sale traceability.

This printing is made with special inks that can be visible only with a UV light source.

PHTHALATES FREE

Coating materials are PHTHALATES FREE, this means a healthier and safer product.

What are Phthalates?
Phthalates are a group of chemicals used to make plastics more flexible and harder to break. They are often called plasticizers. Some phthalates are used as solvents (dissolving agents) for other materials. They are used in hundreds of products, such as vinyl flooring, adhesives, detergents, lubricating oils, automotive plastics, plastic clothes (raincoats), and personal-care products (soaps, shampoos, hair sprays, and nail polishes). Phthalates are used widely in polyvinyl chloride plastics, which are used to make products such as plastic packaging film and sheets, garden houses, inflatable toys, blood-storage containers, medical tubing, and some children's toys. How people are exposed to phthalates? People are exposed to phthalates by eating and drinking foods that have been in contact with containers and products containing phthalates. To a lesser extent exposure can occur from breathing in air that contains phthalate vapors or dust contaminated with phthalate particles. Young children may have a greater risk of being exposed to phthalate particles in dust than adults because of their hand-to-mouth behaviors. Once phthalates enter a person's body, they are converted into breakdown products (metabolites) that pass out quickly in urine.

CDC
CENTERS FOR DISEASE CONTROL AND PREVENTION

http://cdc.gov

FSC MDF

All MDF panels have FSC (Forest Stewardship Council) certification that ensures that are produced in accordance with their exacting processes for sustainable harvesting and promotion of regrowth.

What is FSC?
The Forest Stewardship Council mission is to promote environmentally sound, socially beneficial and economically prosperous management of the world's forests.
Our vision is that we can meet our current needs for forest products without compromising the health of the world's forests for future generations.

FSC
www.fsc.org
MIX
Wood from responsible sources
FSC® C100194

http://us.fsc.org

CARB P2 MDF

WHAT IS CARB?
In 2008 the State of California adopted regulations to address formaldehyde exposure from composite wood products through the establishment of emissions controls. The new requirements set upper limits on formaldehyde emissions from composite wood products sold in California or used to make finished goods offered for sale in California. The first phase of the regulation, known as CARB Phase 1, took effect on January 1, 2009. The next phase of the regulation, known as CARB Phase 2, took effect on January 1, 2011. As with CARB Phase 1, CARB Phase 2 has defined guidelines for the manufacturer, distributor and fabricator of composite wood products as to when they must comply with CARB Phase 2.

http://www.arb.ca.gov

PVC FREE REACH COMPLIANT

Coating materials are all PVC-FREE and REACH certified to improve the protection of human health and the environment from the risks that can be posed by chemicals.

What is REACH?
REACH is the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals. It entered into force on 1st June 2007. It streamlines and improves the former legislative framework on chemicals of the European Union (EU).The main aims of REACH are to ensure a high level of protection of human health and the environment from the risks that can be posed by chemicals, the promotion of alternative test methods, the free circulation of substances on the internal market and enhancing competitiveness and innovation. REACH makes industry responsible for assessing and managing the risks posed by chemicals and providing appropriate safety information to their users. In parallel, the European Union can take additional measures on highly dangerous substances, where there is a need for complementing action at EU level.

European Union

http://ec.europa.eu

LOW VOCS

The panels have extremely low VOCs (Volatile Organic Compounds) emissions, well below any limit required by the furniture industry.

What is VOCs?
Volatile organic compounds (VOCs) are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short - and long-term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to ten times higher) than outdoors. VOCs are emitted by a wide array of products numbering in the thousands. Examples include: paints and lacquers, paint strippers, cleaning supplies, pesticides, building materials and furnishings, office equipment such as copiers and printers, correction fluids and carbonless copy paper, graphics and craft materials including glues and adhesives, permanent markers and photographic solutions.

EPA
United States Environmental Protection Agency

http://epa.gov

CERTIFICATIONS

PRODUCT CERTIFICATION

FSC

ISO 9001

ISO 14001

PEFC

TECHNICAL DATA SHEET

	MAXXIGLOSS			**MAXXI**MATT		
CORE MATERIAL	18 mm MDF	Formaldehyde class Forest sustainability	CARB P2 FSC	18 mm MDF	Formaldehyde class Forest sustainability	CARB P2 FSC
FRONT COATING	HARD COATED HIGH GLOSS PET			HARD COATED SUPERMATT PET		
PROTECTION COATING	LDPE			LDPE		
BACK COATING	POLYMERIC FOIL / MELAMINE FACE			POLYMERIC FOIL / MELAMINE FACE		
HEALTH & ENVIRONMENT	COMPLIANT WITH REACH			COMPLIANT WITH REACH		
CHARACTERISTICS	**TEST METHOD**	**UNIT**	**VALUE**	**TEST METHOD**	**UNIT**	**VALUE**
INTERNAL BOND	EN 319	N/mm²	≥ 0,6	EN 319	N/mm²	≥ 0,6
BENDING STRENGTH	EN 310	N/mm²	≥ 25	EN 310	N/mm²	≥ 25
MODULUS OF ELASTICITY	EN 310	N/mm²	≥ 2300	EN 310	N/mm²	≥ 2300
THICKNESS SWELLING	EN 317	%	≤ 12	EN 317	%	≤ 12
THICKNESS TOLERANCE	EN 324-1	mm	± 0,3	EN 324-1	mm	± 0,3
SCREW HOLDING FACE	EN 320	N	≥ 1000	EN 320	N	≥ 1000
SCREW HOLDING EDGE	EN 320	N	≥ 750	EN 320	N	≥ 750
DENSITY	EN 323	Kg/m³	770 ± 5%	EN 323	Kg/m³	770 ± 5%
MOISTURE CONTENT	EN 322	%	4 - 11	EN 322	%	4 - 11
BOWING	EN 438-2	‰	± 2	EN 438-2	‰	± 2
TOLERANCES (not specified in drawings)	DIN 68100	mm	HT40	DIN 68100	mm	HT40
GLOSS LEVEL	DIN 67530	GU	≥ 92	DIN 67530	GU	≤ 5
SCRATCH RESISTANCE	prEN 438-2	Level	5	prEN 438-2	Level	5
RESISTANCE TO CHEMICALS	DIN 68861-1	Level	1B	DIN 68861-1	Level	1B
RESISTANCE TO DRY HEAT	DIN 68861-7	Level	7D	DIN 68861-7	Level	7C
RESISTANCE TO WET HEAT	DIN 68861-8	Level	8B	DIN 68861-8	Level	8A
SURFACE SOUNDNESS 180°	EN ISO 8510-2	N/cm	5	EN ISO 8510-2	N/cm	5
COLOUR FASTNESS (Blue wool)	EN 15187	Level	≥ 6	EN 15187	Level	≥ 6
CLEANING INSTRUCTIONS	For product cleaning, only use a damp cloth with a solution of 100 parts of water and 1 part of neutral liquid soap. Don't use abrasive, solvents, alcohol and any aggressive detergent; avoid spraying the cleansing product directly onto the surface. Possible rests of dirt or stains have to be immediately removed.					