ONBORD HIGH GLOSS PUR LAMINATED PANELS - Technical Specifications

- PREMIUM GRADE MDF LAMINATED WITH PET (POLYESTER) HIGH GLOSS LAMINATE 0.3mm THICK
- PEELCOAT APPLIED TO HIGH GLOSS FACE(S)
- GLOSS LEVEL: 91 (±2) AT 60° ANGLE
- SIZE: 19mm x 49" x 109"

Test	Results
DIN EN 15186	0.4 N / Class 4F
3.7 Linear Glass Scratch	<20g
3.7 Diamond Scratch	Rating 2
3.8 Ball impact resistance....	<250 mm
3.9 Dart Impact resistance....	>125 mm
3.13 Wear resistance....	8,000 (average cycles)

3.4 Cleanability & Stain Resistance.....

	Cleaning Steps						Stain
Reagent	0	1	2	3	4	Score	Resistance
Distilled Water	-	-	-	-	-	0	N
Ethyl alcohol: water (50:50)	-	-	-	-	-	0	N
Acetone	-	-	-	-	-	0	S
Household ammonia	-	-	-	-	-	0	N
10% citric acid solution	-	1	-	-	-	1	N
Vegetable cooking oil	-	-	-	-	-	0	N
Coffee	-	-	-	-	-	0	N
Tea	-	-	-	-	-	0	N
Tomato catsup	-	-	-	-	-	0	N
Yellow mustard	-	-	-	-	-	0	N
Povidone iodine (10%)	-	-	-	-	-	0	N
Permanent marker	-	1	1	1	-	3	N
#2 pencil	-	1	1	1	-	3	N
Wax crayon	-	1	1	1	-	3	N
Black shoe polish	-	1	1	1	-	3	N

NEMA Test Results Version LD3-2005

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be understood as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed.

Cleaning Steps

0 = Removed with water.
1 = 25 cycles spray cleaner or sponge.
2 = 25 cycles baking soda plus spray cleaner on brush. 3 = Acetone and cotton ball.
4 = Bleach plus cotton ball.
5 = Not Removed.

Stain Resistance

N = No Effect.
M = Moderate Effect. Difficult to perceive stain. S = Severe Effect. Easily perceive stain or damage to surface. Please see NEMA LD3 2005 for a complete description of methods and list testing procedures.
*Test results may vary by color and design

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ONBORD SERICA PUR LAMINATED PANELS - Technical Specifications

- PREMIUM GRADE MDF LAMINATED WITH PET MATTE LAMINATE 0.3mm THICK
- PEELCOAT APPLIED TO SERICA FACE(S)
- SIZE: 19mm x 49" x 109"

Properties		Value		Unit	Method	Note
Dimensional stability temperature (100 °C)		Long.	< - 7	%	Internal method	According to ASTM D 120
		Trans.	+/- 2			
Tensile strength		Long.	> 40	MPa/m²	MTD 001	According to ISO R527-3
Elongation at break		Long.	> 50	%	MTD 001	According to ISO R527-3
Scratch resistance		3			UNI EN 438/25	
Hoffman Scratch		5		N		
Heat resistance of the em (100 °C)		bossing no visible change		S	ALFA AW100	condition: T= 100°C x 10 min in Air
Stains resistance		5			UNI EN 12720	
Detergent resistance		5			COSMOB (Internal method)	
Light resistance		5		grey scale	UNI EN 4892-2	:20e1x3cept part 5, use method B (Indoor)
Wear resistance		4			UNI EN 438/10	
Gloss 60°		3		gloss	ALFA AW A16/1	0 ± 1 gloss
Colour	Light Colours	ΔE	max 0,8	0	CIELAB	
		ΔL	± 0,50			
		Δa	± 0,30			
		Δb	± 0,40			
	Dark Colours	ΔE	max 1,0	0		
		ΔL	± 0,70			
		Δa	± 0,60			
		Δb	± 0,60			

ONBORD MDF LAMINATED PANELS - Technical Specifications

Properties	Typical Value*		ANSI A208.2-2016 (Grade 130)	
	19.05mm - (3/4")			
	Metric	Imperial	Metric	Imperial
Internal Bond	0.75 N/mm²	109 psi	0.54 N/mm²	78 psi
MOR	24.3 N/mm²	3,525 psi	21.6 N/mm²	3,130 psi
MOE	3,350 N/mm²	486,000 psi	2,160 N/mm²	313,000 psi
Screw Holding:				
Face (≥ 3/8")	1,140 N	256 lb	988 N	222 lb
Edge (≥ 5/8")	1,095 N	246 lb	787 N	177 lb
Moisture Content	4-6%		≤ 9%	

Thickness Tolerance: from specified thickness from panel average	Metric	Imperial
	± 0.125 mm ± 0.125 mm	± 0.005 in ± 0.005 in
Length/Width	± 2.0 mm	± 0.080 in
Linear Expansion	≤ 0,33%	

Thickness Tolerance = Nominal Size ±0.30 mm (Film and Adhesive)

PLEASE CONTACT YOUR LOCAL FORMATIONS REPRESENTATIVE FOR ASSISTANCE IN SPECIFYING ONBORD PANELS AND CABINET DOORS

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