

ACRYLUX GLOSS



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Acrylux furniture panels with a high gloss surface.

Sheets of glossy, co-extruded ABS/PMMA laminate, 0.5-0.8mm thick (dependent on color), are laminated to the board with (in accordance with customer choice):

- (1) Raw MDF backside coated with white, 0.45 mm thick HIPS laminate
- (2) Raw MDF backside coated with white 0.2 mm thick PP laminate *
- (3) Double-sided White melamine MDF (Premium variant)
- (4) White lacquered MDF single-sided (ECO variant)
- * other colors available by request

The very high quality acrylic coating is key to this product. The maximum width of the board we can obtain is 1300 mm and the maximum length is 2800 mm. Acrylux (AM1800) laminate coating has much higher chemical, scratch and UV resistance.

The boards are additionally covered with a protective film, which significantly reduces the likelihood of damage during production and assembly of furniture elements.

Standard Dimensions:

	Dimensions			
	(1)	(2)	(3)	(4)
Panel Variant	MDF + Hips	MDF+ PP	melamine MDF	Lacquer MDF
Dimensions	2800 x 1300 mm*	2800x1300 mm*	2800x1300 mm*	2800x1300 / 2800x1250 mm*
Substrate Thickness	17 / 18 mm	17 / 18 mm	18 mm	16 / 18 mm
Acrylic Sheet Thickness	0.7 - 0.8 mm Dependent on color and protective foil thickness			

Other dimensions available by request.

Acrylic Laminate Properties :

Badana Właściwość	Standard Testu	Jednostka	Klasa/Wartość
Resistance against Chemical Agents	DIN EN 68861 T1	Level	1B
Resistance against micro-scratches	IHD-W-466	Method "A"	Class 1 Loss of Gloss <20%
Odporność na Zadrapania Wełną Stalową	QPA-25-LT	Pressure: 1 kg Rotation number: 20 Steel Wool Type : 00	Class 1 No visible changes or scratches
Temperature Resistance (Dry Test)	DIN EN 68861 T7	Temperature [°C]	7D, 75°C
Temperature Resistance (Wet Test)	DIN EN 68861 T8	Temperature [°C]	8B ,70 °C
Light Resistance (Resistance to atmospheric condit	EN ISO 4892-2 Complete Color change after 200h Xenon Test		DE*<1,7
Gloss	DIN 67530 at an angle of 60°	GLE	>85



HIPS Balancing Laminate Properties:

Characteristic		Value	Unit	Test Method
Physical Propertues		1		
Density at 23°C		1,05	g/cm3	ISO 1183-1
Mechanical Properties				
Elastic Modulus during stretchin	g at 23°C	2540	Mpa	ISO 527
Elastic limit at 23°C		28	Мра	ISO 527
Elongation at break at 23°C		24	%	ISO 527
Thermal Properties				
Vicat B/50 , 50N/50K/h		88	°C.	ISO 306
HDT-A , 1,82 Mpa		74	°C.	ISO 75
Optical Properties				
Tap Surface Class	(Gloss Pattern at 60°)	2,30	Gloss Unit	Din 67530
Top Surface Gloss	(Gloss pattern at 85°)	3,10	Gloss Unit	Din 67530
Fire Resistance				
Fire Rating*		Hb		UL94
		Hb		ISO 1210
Other Properties				
Forming Shrinkage		0.5	%	Producer's Internal Testing Method
Thermo-forming temperature range		≥ 120 ≤ 165	°C.	Producer's Internal Testing Method
*Tested on the raw materials	employed in this product, thi	ckness > 1.6 mm		

PP Laminate Properties:

Property	Norm	Unit	Specification
Thickness	PN-ISO 4593	mm	215 +/-7%
Width	PN-ISO 4592	mm	50 - 1400 +/- 2
Color		ΔE	≤1,0
Shearing Resistance	PN-ISO 6383	N/mm	w: >30 p:>90
Stretch Resistance	PN-EN ISO 527	Мра	w:>16 p:>12
Elongation at break	PN-EN ISO 527	%	>300

*Results apply to laminates without deep embossed mottle patterns (04). In the case of such a pattern, the strength parameters are determined individually. Laminates produced by the Cast method - from single colored polypropylene. The laminate is designed for indoor use, any deviation from the recommended applications should be supported by additional tests of resistance against the conditions in which the product would be used.





Board Tolerances:

	Panels		
Substrate Board Dimension	< 15 mm	15 - 20 mm	> 20 mm
Thickness Tolerance	± 0.5 mm		
Length and Width Tolerance	± 5.0 mm		
Length- and Width-wise deformation	inward bending (concavity): 1.5mm/m, outward bending (bulging): 1.5mm/m, panels <16mm thick		
Lengui- and Width-wise deformation	may have higher deformation values		
Edge Defects	≤ 10 mm From Panel Edge		
Final Product Thickness Tolerance	Nominal dimension + 0.2mm (foil + adhesive) ±Tolerance		

Surface Properties:

	Panels			
Scratches				
Contrasting Points	Listed surface properties are evaluated in accordance with PN EN 14322 and PN EN 438-1 norms			
Bubbles, Indentations, particles under				
Pressure Marks	Micro scratches, which may be visible in daylight or under halogen lighting, are a result of the high gloss			
Bubbles	effect and are not considered a defect			
Observation distance and light characteristics for quality control in accordance with the current PN EN 14323 standard*				
Color Shade	Slight deviations (within the manufacturer's standard tolerance) may occur as a result of irregularities on the decor paper and the type of substrate used.			
	Color Tolerance:			
	White and Light Colors: Delta E ≤ 0.5			
	Medium Intensity Colors: Delta E ≤ 0.8			
	Dark Colors: Delta E ≤ 1.5			
Larger Deviations are Permissible with Reflective and Metallic Decors				
Due to the different shape and size of the metallic pigment particles used in the production of the panels, the aperant color can vary from light to				
dark to iridescent depending on the angle of light and the angle of observation. This is an intentional element of metallic decors and is not				
grounds for complaint.				
When evaluating colors, the samples should first be subjected to 48h of daylight, due to the photochemical process taking place. This should				

When evaluating colors, the samples should first be subjected to 48h of daylight, due to the photochemical process taking place. This should always be done under the same conditions (same lighting, exposure time, etc.). The tested samples must not be exposed to direct sunlight.

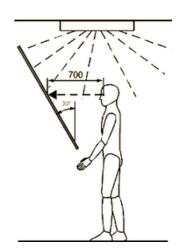


ACRYLUX GLOSS TECHNICAL SPECIFICATIONS

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Procedure for Product Evaluation:.

- Panel position: static, vertical
- Light: fluorescent lamp at 6.500°K (Diffuse light or D65)
- Observation at an angle of 30° at a distance of 0,7 m
- Observation time: max 20 s



Panel evaluation should take place under a diffuse and fixed light source that illuminates the surface uniformly. This can be sunlight or adequate artificial lighting (between 2000-5000 lux). The approximate distance between the assessed surface and light source should be 1,5m. Surface defects will only be acknowledged if they are larger than 0,8mm² and visible from a distance of 0,7m at a viewing angle of approximately 45°.

It is within tolerance for 3% of a given shipment to have defects exceeding the standards given above, and does not constitute grounds for a claim. This tolerance is in accordance with the European standards for chipboard and MDF manufacturers. For technical reasons, deliveries have a permitted quantity tolerance of +/- 10%

General Information: The product is intended for use as a decorative material in interior design and furniture making. It should only be used in dry places. The boards must be transported and stored with the proper precautions. If necessary, they can be stored on top of each other on a level and horizontal surface in a dry place. The boards should be stored indoors to protect them from swelling and deformation caused by moisture. The boards should not be stored at temperatures below 15°C for long periods of time, as this may cause irreparable damage. The relative humidity of storage should be between 45% and 65%. Before processing, boards should be acclimated by storage for a period of min. 48h and under suitable conditions (temperature of 18-22 C and humidity of 30%-65%). Processing should also take place at room temperature. It should be noted that, especially in the colder periods of the year, it is necessary to acclimatize all boards. If, due to the number of boards in a stack, there is a risk of insufficient acclimatization of boards in the middle of the stack, the acclimatization period should be extended accordingly.

