

AbsoluteGloss™ Panels Technical Data Sheet

Summary

Laminex AbsoluteGloss Panels feature a mar resistant high gloss surface technology, bonded to Moisture Resistant E0 Medium Density Fibreboard (MDF).

Applications

- Cabinet Doors
- Wall Panels

Functional Benefits



Vertical
Application



Stain
Resistant



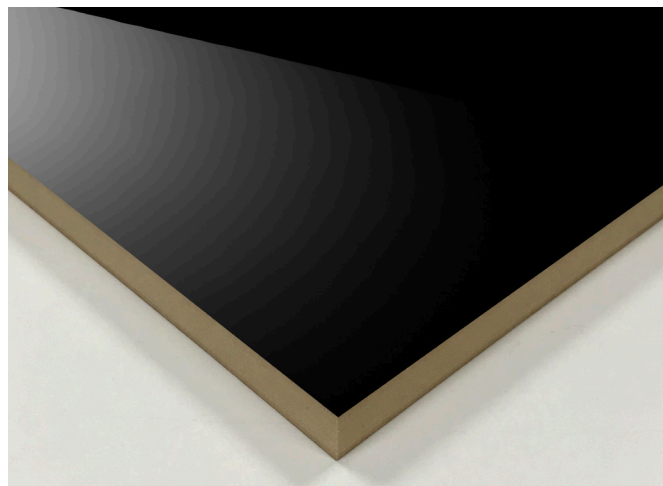
Water
Resistant



Super
Glossy



UV Stable
Indoor Use



Product Characteristics

Attribute	Description
Product Category	Bonded Panels (with either single sided or double sided Functional Surface)
Substrate Type	Moisture Resistant E0 MDF
Sheet Size (nominal)	2400mm 1200mm
Thickness (nominal)	18mm
Weight (Kg/m ² approx.)	13.1
Finish	AbsoluteGloss
Colour/Pattern	To view the full range, please visit www.laminex.com.au

Surface Performance (Tested to ISO 4586-2)

Attribute	Minimum Values
Resistance to Scratching	Rating = 3 (Force ≥ 2 Newton)
Resistance to Dry Heat at 180°C	Appearance rating not worse than 1 <i>Strong change - The structure of the surface is distinctly changed</i>
Resistance to Wet Heat at 100°C	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>
Resistance to Steam	Appearance rating not worse than 1 <i>Blistering and/or delamination</i>
Resistance to Impact by Small Diameter Ball	Force ≥ 20 Newton
Lightfastness	Contrast: Grey scale rating ≥ 4 <i>When tested in contrast with Blue wool 6 Ref: ISO 105-A02</i>

Surface Performance (Tested to ISO 4586-2)

Attribute	Minimum Values		
Resistance to Staining	Groups 1 & 2	Acetone Coffee (120g of coffee per litre of water)	Appearance rating not worse than 5 No visible change
	Group 3	Sodium hydroxide (25% solution) Hydrogen peroxide (30% solution) Shoe polish	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles
Resistance to Marring ASTM D 6037	Loss of gloss < 40%		
Gloss Level at 60° angle AS/NZS 1580.602.2	≥ 90 gloss units		
Colour Variation ISO 105-A05	Surface material "batch to batch" colour variation of $\Delta E \leq 1$		

Adhesion Performance

Attribute	Tested to	Unit	Minimum Values
Crosscut Adhesion	AS/NZS 1580.408.2	%	≤ 10
Bond Strength	AS/NZS 4266.2 Section 13	MPa	> 0.5

Substrate Performance (Tested to AS/NZS 1859.2)

Attribute	Units	Typical Values [#]	
		18mm	
Thickness Tolerance	mm	±0.3	
Density	Kg/m ³	720 ± 20	
Internal Bond	MPa	0.7 - 1.0	
Modulus of Rupture	MPa	33 - 38	
Modulus of Elasticity	MPa	2800 - 3100	
Surface Soundness	MPa	1.2 - 1.5	
Screw Holding, Face	Force N	1100 - 1400	
Screw Holding, Edge	Force N	1000 - 1300	
Thickness Swell (24hr)	%	5.7 - 8.2	
Wet Bending Strength (Method A)	MPa	5 - 6	
Formaldehyde	mg/L	E0 ≤ 0.5	

[#]Table contains representative values only. Performance variation outside stated typical values does not constitute a product failure.

Specialty Performance

Attribute	Tested to	Typical Values	
Fire Hazard Properties	Cone calorimeter AS/NZS 3837 (In accordance to AS5637.1)	Group Number	TBA
		Average Specific Extinction Area (ASEA)	TBA

Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values
Formaldehyde	AS/NZS 1859.2	mg/L	E0 ≤ 0.5
Volatile Organic Compounds (VOC)	ASTM D5116	mg/m ² /h	≤ 0.5

Important Information

Note	Details		
Ⓜ ONLY use for internal applications	Claims arising from non-internal applications are not protected under warranty		
Ⓜ ONLY use for vertical applications	Claims arising from horizontal applications are not protected under warranty		
Ⓜ DO NOT expose to prolonged direct or indirect UV light	Claims arising from prolonged exposure to UV light (natural or artificial sources) resulting in shrinkage and/or colour changes beyond the tolerances stated in this document, are not protected under warranty		
Ⓜ DO NOT use for high impact or high traffic installations	Claims arising from high impact or high traffic installations are not protected under warranty		
Ⓜ DO NOT allow heat, hot gases or moisture to contact doors or panels	Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty		
	Claims arising from damage due to front venting oven installations without a heat deflector shield are not covered under warranty		
	Claims arising from damage due to fugitive heat or moisture leaking from appliance seals are not covered under warranty		
	Claims arising from the use of benchtop hot plates without exhaust fan activation or use of an ineffective extraction, are not covered under warranty		
Ⓜ DO NOT expose to humidity fluctuations	Claims arising from damage due to hot objects, such as saucepans or irons, contacting the decorative surface, are not covered under warranty		
Ⓜ DO NOT expose to humidity fluctuations	Claims arising from bow, warp or twisting are not covered by warranty		
Ⓜ ONLY use the Functional Surface as the displayed decorative surface	Claims arising from a mix of Functional Surface and Complementary Coloured Backer are not covered under warranty		
Ⓜ ONLY the Functional Surface has the AbsoluteGloss finish	Claims arising from gloss or texture variation between the Functional Surface and Complementary Coloured Backer are not covered by warranty		
Ⓜ ONLY use recommended hinge quantities	Claims arising from bow, warp or twisting due to too few hinges or inappropriate door sizes or weights, are not covered under warranty		
	Door Height (mm)	Door Weight (Kg)	No. of Hinges
	≤ 900 mm	≤ 9 Kg	2
	≤ 1600 mm	≤ 15 Kg	3
	≤ 2000 mm	≤ 19 Kg	4
	≤ 2400 mm	≤ 23 Kg	5
Ⓜ DO NOT use large door dimensions	Claims arising from bow, warp or twisting of doors greater than 600mm wide, are not covered by warranty		
	Claims arising from bow, warp or twisting of single piece doors greater than 1800mm high, are not covered by warranty. Pantry doors should use split door construction, where joinery brackets or connecting dowels can be used to join the two doors together.		
Ⓜ ONLY use recommended Care & Maintenance methods	Claims arising from staining or damage attributable to not following Care & Maintenance instructions, are not covered under warranty		
Ⓜ DO NOT leave the edges of AbsoluteGloss panels unsealed	Claims arising from the effect of heat or moisture ingress attributable to exposed edges of panels, are not covered under warranty		

Ⓜ Denotes specific warranty conditions apply