



Compact Laminate

AbsoluteMatte® Panels

Summary

Laminex® AbsoluteMatte® Panels feature advanced technology which creates a next-generation, highly durable, anti-fingerprint functional surfacing material, bonded to Moisture Resistant E0 Medium Density Fibreboard.



Applications

- Shelving
- Cabinet Doors
- Bedroom Furniture
- Cupboards
- Wall Panels
- Office Furniture

Functional Benefits



Light Duty
Horizontal



Vertical
Application



Fingerprint
Resistant



Stain
Resistant



Heat
Resistant



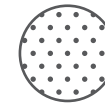
Water
Resistant



Scratch
Resistant



UV Stable
Indoor Use



Tactile



Low
Maintenance

Product Characteristics

Attribute	Description
Product Category	Decorated Panel (with either single sided or double sided Functional Surface)
Substrate Type	Moisture Resistant E0 MDF
Sheet Size (nominal)	2400mm x 1200mm
Thickness (nominal)	18mm (finished panel thickness approx. 18.6mm)
Weight (Kg/m² approx.)	13.1
Finish	AbsoluteMatte
Colour/Pattern/Size	To view the full range, please visit www.laminex.com.au for the National Availability Guide

Surface Quality (Tested to EN438-2:2005)

Attribute	Minimum Values
Inspection Guidelines	Viewing distance 0.75 to 1.5m from laminate surface Light intensity approximately 800 to 1000 lx at the laminate surface Overhead white fluorescent lights, of colour temperature approximately 5000K
Dirt, Spots & Similar Surface Defects	The admissible size of defects is based on a maximum contamination area equivalent to 1.0mm ² /m ² and is proportional to the sheet size under inspection The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects
Fibres, Hairs & Scratches	The admissible size of defects is based on a maximum contamination length equivalent to 10mm/m ² and is proportional to the sheet size under inspection The total admissible length of contamination may be concentrated in one defect or dispersed over an unlimited amount of smaller defects
Edge Quality: Chipping	Max. 3mm/side
Indentations	The admissible size of defects in based on a maximum contamination area equivalent to 2.0mm ² /m ² and is proportional to the sheet size under inspection The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects





Specialty Performance

Attribute	Tested to	Minimum Values	
Fire Hazard Properties	AS/NZS 3837 (In accordance to AS5637.1)	Group Number	3
		Average Specific Extinction Area (ASEA)	25.3 m ² /Kg
Fingerprint Resistance	Laminex Internal Method	Functional Surface material DOES contain Fingerprint Resistance functionality. <i>Note: Balancing backer material DOES NOT contain Fingerprint Resistance functionality.</i>	

Surface Performance (Tested to ISO 4586-2)

Attribute	Minimum Values		
Resistance to	Surface Wear	Initial wear ≥ 150 cycle Average wear ≥ 350 cycles	
	Immersion in Boiling Water	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>	
	Water Vapour	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>	
	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>	
	Dry Heat at 160°C	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>	
Dimensional stability at elevated temperature	Longitudinal direction: Maximum cumulative change 0.30 % Transverse direction: Maximum cumulative change 0.60 %		
Resistance to	Impact	Large diameter ball > 1800mm	
	Cracking under stress/crazing	Appearance rating not worse than 4 Hairline cracks only visible under 6X magnification	
	Scratching	Rating = 3 (Force ≥ 2 Newton)	
	Staining	Groups 1 & 2	Acetone Coffee (120g of coffee per litre of water)
Group 3		Sodium hydroxide (25% solution) Hydrogen peroxide (30% solution) Shoe polish	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</i>
Lightfastness	Contrast: Grey scale rating ≥ 4 <i>When tested in contrast with Blue wool 6 Ref: ISO 105-A02</i>		
Gloss Level at 60° angle AS/NZS 1580.602.2	≤ 8 gloss units		
Colour Variation ISO 105-A05	Surface material "batch to batch" colour variation of E ≤ 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	> 0.6





Specialty Performance

Attribute	Tested to	Minimum Values	
Antibacterial Activity and Efficacy (24 hours)	JIS Z 2801 Referred to in ISO 22196	PASS = R value > 2.0 orders of magnitude difference between a treated sample and an untreated control or other inert surface	Bacterial Strains tested: <ul style="list-style-type: none"> Staphylococcus aureus (ATCC 6538P) Escherichia coli (ATCC 8739) Methicillin resistant Staphylococcus aureus (NCTC 12493) Pseudomonas aeruginosa (ATCC 15442) Salmonella choleraesuis (ATCC 10708)
Antifungal (Incubation condition: 30°C for 28 days at 90% relative humidity)	ASTM G21	Rating ≤ 1 1 = Traces of growth (less than 10%) 0 = None	Fungal Strains tested: <ul style="list-style-type: none"> Aspergillus niger (ATCC 9642) Penicillium pinophilum (ATCC 11797) Chaetomium globosum (ATCC 6205) Gliocladium virens (ATCC 9645) Aureobasidium pullulans (ATCC 15233)

Emissions & Environmental Performance

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

Interpretation of Ratings

Rating	All ratings unless specified	Resistance to moisture	Crazing
5	No visible change		Surface and edges unchanged from "as received" condition
4	Slight change of gloss and/or colour only visible at certain viewing angles	Slight change of gloss/colour or slight edge swell or hairline edge cracks.	Surface unchanged, with slight hairline edge cracks visible to the naked eye
3	Moderate marked change of gloss and/or colour		Surface cracks visible to the naked eye, and/or moderate edge cracks
2	Marked change of gloss and/or colour		Moderate surface cracks, and/or delamination
1	Surface distortion and/or blistering		Severe surface cracks, and/or delamination

Laminex declares that the mentioned product will meet the above specifications when determined according to the given standards.





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

Important Information

Note	Details
(W) ONLY use for internal applications	Claims arising from non-internal applications are not covered under warranty
(W) 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 covered under warranty
(W) DO NOT use for high impact applications	Claims arising from high impact or high durability installations are not covered under warranty
(W) DO NOT expose to heat or moisture	Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty
(W) DO NOT use decorative face as a cutting surface	Claims arising from physical damage of the decorative surface are not covered under warranty
(W) ONLY the Functional Surface material contains fingerprint resistant technology	Claims arising from fingerprinting of the Balancing Backer surface are not covered under warranty
(W) ONLY the Functional Surface material has the AbsoluteMatte finish	Claims arising from gloss or texture variation between the Functional Surface & Balancing Backer surface are not covered under warranty
(W) ONLY use the Functional Surface as the displayed decorative surface	Claims arising from a mix of Functional Surface & Balancing Backer surfaces, used as the displayed decorative surface within an installation, are not covered under warranty
(W) ONLY view surface when illuminated by a diffused, non-critical light that is not glancing or parallel to the surface	Minor variations in the surface finish that are only visible at an acute viewing angle, or under critical light, will not be covered under warranty
(W) ONLY use recommended Care & Maintenance methods	Claims arising from staining or damage attributable to not following Care & Maintenance instructions, are not covered under warranty
(W) DO NOT leave the edges of AbsoluteMatte panels unsealed	Claims arising from the effect of heat or moisture ingress attributable to exposed edges of panels, are not covered under warranty

(W) Denotes specific warranty conditions apply

Warranty Document To view the latest Warranty Document for this product, please visit www.laminex.com.au.

Care & Maintenance Document To view the latest Care & Maintenance Document for this product, please visit www.laminex.com.au.

Safety Data Sheet To view the latest Safety Data Sheet for this product, please visit www.laminex.com.au.

