

# AbsoluteMatte® Panels Technical Data Sheet

## 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



Tactile



UV Stable  
Indoor Use



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
Weight (Kg/m <sup>2</sup> approx.)	13.1
Finish	AbsoluteMatte
Colour/Pattern	To view the full range, please visit <a href="http://www.laminex.com.au">www.laminex.com.au</a>

## Surface Performance (Tested to ISO 4586-2)

Attribute	Minimum Values
Resistance to Surface Wear	Initial wear ≥ 150 cycles. Average wear ≥ 350 cycles
Resistance to Scratching	Rating = 3 (Force ≥ 2 Newton)
Resistance to Dry Heat at 180°C	Appearance rating not worse than 3 <i>Moderate change of gloss and/or colour</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 3 <i>Moderate change of gloss and/or colour</i>
Resistance to Impact by Small Diameter Ball	Force ≥ 20 Newton

## Surface Performance (Tested to ISO 4586-2)

Attribute	Minimum Values		
Lightfastness	Contrast: Grey scale rating $\geq 4$ When tested in contrast with Blue wool 6 Ref: ISO 105-A02		
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
Gloss Level at 60° angle AS/NZS 1580.602.2	$\leq 8$ 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	%	$\leq 10$
Bond Strength	AS/NZS 4266.2 Section 13	MPa	$> 0.6$

## Substrate Performance (Tested to AS/NZS 1859.2)

Attribute	Units	Typical Values <sup>#</sup>	
		18mm	
Thickness Tolerance	mm	$\pm 0.3$	
Density	Kg/m <sup>3</sup>	720 $\pm$ 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 $\leq$ 0.5	

<sup>#</sup>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	3
		Average Specific Extinction Area (ASEA)	25.3 m <sup>2</sup> /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>	

## Emissions & Environmental Performance

Attribute	Tested to	Unit	Minimum Values
Formaldehyde	AS/NZS 1859.2	mg/L	E0 $\leq$ 0.5
Volatile Organic Compounds (VOC)	ASTM D5116	mg/m <sup>2</sup> /h	$\leq 0.5$

## Important Information

Note	Details
Ⓜ ONLY use for internal applications	Claims arising from non-internal applications are not covered 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 covered under warranty
Ⓜ DO NOT use for high impact applications	Claims arising from high impact or high durability installations are not covered under warranty
Ⓜ DO NOT expose to heat or moisture	Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty
Ⓜ DO NOT use decorative face as a cutting surface	Claims arising from physical damage of the decorative surface are not covered under warranty
Ⓜ ONLY the Functional Surface material contains fingerprint resistant technology	Claims arising from fingerprinting of the Balancing Backer surface are not covered under warranty
Ⓜ 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
Ⓜ 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
Ⓜ 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

Ⓜ Denotes specific warranty conditions apply