

AbsoluteMatte® Laminate Technical Data Sheet

Summary

Laminex AbsoluteMatte is a non-postformable laminate featuring a super matte, soft touch, highly durable surface. Advanced technology creates a next-generation, fingerprint resistant functional surface that is further enhanced with Protec+® antimicrobial performance.



Applications

- Benchtops
- Vanity Units
- Furniture
- Partitions
- Wall Panels
- Store Fixtures

Functional Benefits



Horizontal Application



Vertical Application



Fingerprint Resistant



Antimicrobial



Stain Resistant



Heat Resistant



Water Resistant



Scratch Resistant



Tactile



UV Stable Indoor Use

Product Characteristics

Attribute	Description
Product Category	High Pressure Laminate
Substrate Type	-
Sheet Size (nominal)	3600mm x 1500mm, 3600mm x 750mm
Thickness (nominal)	0.7mm
Weight (Kg/m2 approx.)	1.0
Finish	AbsoluteMatte
Colour/Pattern	To view the full range, please visit www.laminex.com.au

Dimensional Tolerance (Tested to ISO 4586-2)

Attribute	Measurement
Thickness	± 0.10mm
Edge Defects	Defect free length and width within the nominal sheet size minus 20mm
Length and Width	+10mm / -0mm
Straightness of edges	1.5mm/m maximum deviation
Squareness	< 6mm (variation in diagonal measurement)
Flatness	60mm/m maximum deviation

Surface Quality (Tested to ISO 4586-2)

Attribute	Measurement
Inspection Guidelines	Viewing distance 0.75 to 1.5m from laminate surface Light intensity approximately 800 to 1000 lx at the laminate surface Using normal vision, corrected if necessary. No magnification devices
Dirt, Spots & Similar Surface Defects	The admissible size of defects in 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
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

Surface Performance (Tested to ISO 4586-2)

Attribute	Measurement	
Resistance to Surface Wear	Initial wear ≥ 150 cycles. Average wear ≥ 350 cycles	
Resistance to 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>	
Resistance to water vapour	Appearance rating not worse than 4 <i>Slight change of gloss and/or colour, only visible at certain viewing angles</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 Dry Heat at 180°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 1.10 % Transverse direction: Maximum cumulative change 1.40 %	
Dimensional stability at ambient temperature	Longitudinal direction: Maximum cumulative change 1.10 % Transverse direction: Maximum cumulative change 1.40 %	
Resistance to Impact by Small Diameter Ball	Force ≥ 20 Newton	
Resistance to cracking under stress	Appearance rating not worse than 4 <i>Hairline cracks only visible under 6X magnification</i>	
Resistance to Scratching	Rating = 3 (Force ≥ 2 Newton)	
Resistance to Staining	Groups 1 & 2 Acetone Coffee <i>(120g of coffee per litre of water)</i>	Appearance rating not worse than 5 <i>No visible change</i>
	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°C angle AS/NZS 1580.602.2	≤ 8 gloss units	
Colour Variation ISO 105-A05	Surface material "batch to batch" colour variation of ΔE ≤ 1	

Specialty Performance

Attribute	Tested to	Typical Values	
Fire Hazard Properties	AS/NZS 3837 (In accordance to AS5637.1)	Group Number	2
		Average Specific Extinction Area (ASEA)	11.7 m ² /kg
Fingerprint Resistance	Laminex Internal Method	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles	
PROTEC+® Antimicrobial Surface	Protec+® antimicrobial surface technology, prevents growth of bacteria and inhibits fungus on decorative surfaces. Protec+® provides enhanced antimicrobial protection for the expected life of the laminate.		
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: 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: 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	ISO 12460-3	mg/m ² h	≤ 1.0
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 covered under warranty
Ⓜ DO NOT use for laboratory benchtops	Claims arising from use as a benchtop in laboratories with expected chemical use are not covered under warranty
Ⓜ DO NOT use under bench mounted sinks	Claims arising from water ingress, delamination or other faults directly attributable to the installation of an under bench mounted sink, 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 protected under warranty
Ⓜ Use of different surface materials within a single installation may result in a perceived visual variation	Claims arising from colour, gloss or finish variation between different product groups, including products with different UV or aging stabilities, are not covered under warranty
Ⓜ Use of directional designs or finishes in opposing orientations may result in a perceived visual variation	Claims arising from colour, gloss or finish variation directly attributable to surface directionality, are not be covered under warranty
Ⓜ ALL material must be inspected prior to commencing any fabrication activity	Claims arising from defects or variation clearly detectable prior to fabrication, will not be covered under warranty for labour costs or penalties
Ⓜ USE laminate sheets within 12 months of purchase	Claims arising from performance failure during fabrication that is directly attributable to the age of the laminate, are not covered under warranty
Ⓜ ONLY apply a smooth glue layer for bonding	Claims arising from uneven glue application resulting in surface undulations telegraphing to the decorative surface are not covered under warranty
Ⓜ DO NOT postform laminate	Claims arising from blisters, cracks, micro-crazing or other failure modes directly attributable to postforming fabrication, are not covered under warranty
Ⓜ ONLY cold form laminate when bonded to Craftform® MDF	Claims arising from adhesion failure, spring back, laminate cracking or bending radii of less than 200mm, are not covered under warranty
Ⓜ ALL Protec+® laminate surfaces must be regularly cleaned to maintain anti-microbial functionality	Claims arising from a build-up of surface dirt or grime that prevents direct contact between the bacteria or fungus, and the laminate surface, are not covered under warranty
Ⓜ ONLY bond directly to Particleboard and Medium Density Fibreboard	Claims arising from bonding directly to non-recommended surfaces, including but not limited to: plaster, plasterboard, masonry or concrete, are not covered under warranty
Ⓜ DO NOT apply a coating to the surface	Claims arising from surface defects or other failure modes directly attributable to the application of paint or other surface lacquering systems, 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
Ⓜ DO NOT expose to heat, hot gases or moisture	Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty
	Claims arising from damage due to hot objects, such as saucepans or irons, contacting the decorative surface, are not covered under warranty
Ⓜ ONLY use recommended Care & Maintenance methods	Claims arising from staining or damage attributable to not following Care & Maintenance instructions, are not covered under warranty

Ⓜ Denotes specific warranty conditions apply