



Compact Laminate

Multipurpose

Summary

Laminex® General Purpose Compact, with Protec+™ anti-microbial surface performance, is strong, durable and moisture resistant, making it suitable for a wide variety of uses.

Applications

- Shower & Toilet Cubicles
- Office worktops
- Interior Wall Cladding
- Lockers
- Kitchen Benchtops & Cabinetry
- Educational Furniture
- Durable Furniture



Functional Benefits





















Horizontal Application

Vertical Application

Finge Resis

Fingerprint Antimicrobial

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Stain Resistant

Heat Resistant

Water Resistant

Scratch Resistant

UV Stable Indoor Use

Tactile

Product Characteristics

Attribute	Description
Product Category	Laminate
Substrate Type	-
Thickness (nominal)	13mm, 18mm
Weight (Kg/m2 approx.)	18.5, 25.2
Decorative Surfaces	Double Sided (D/S)
Core	Black
Finish	Natural, Chalk, Nuance, AbsoluteMatte
Colour/Pattern/Size	To view the full range, please visit www.laminex.com.au for the National Availability Guide

Dimensional Tolerance (Tested to ISO 4586-2)

	Test Method (EN438-2: 2005		Unit	Laminate Grade
Property	Clause No.)	Property or Attribute	(Max. or Min.)	CGS
				3.0 ≤ t < 5.0 mm : ± 0.30 mm
				5.0 ≤ t < 8.0 mm : ± 0.40 mm
				8.0 ≤ t < 12.0 mm : ± 0.50 mm
				12.0 ≤ t < 16.0 mm : ± 0.60 mm
Thickness	5		mm (max.)	16.0 ≤ t < 20.0 mm : ± 0.70 mm
				20.0 ≤ t < 25.0 mm : ± 0.80 mm
				25.0 mm ≤ t : to be agreed between
				supplier and customer.
				(t = nominal thickness)





Dimensional Tolerance (Tested to ISO 4586-2)

	Test Method (EN438-2: 2005		Unit	Laminate Grade
Property	Clause No.)	Property or Attribute	(Max. or Min.)	CGS
				2.0 ≤ t < 6.0 mm : 8.0 mm/m
Electroses (1)	Flatness a)		mm (max.)	6.0 ≤ t < 10.0 mm : 5.0 mm/m
ridtness %				10.0 mm ≤ t : 3.0 mm/m
				(t = nominal thickness)
Length and Width b)	6		mm	- 0/+ 10 mm
Straightness of edges b)	7		mm (max.)	1.5 mm/m
Squareness b)	8		mm (max.)	1.5 mm/m

[#] Provided the laminates are stored in the manner and conditions recommended by the manufacturer, they shall comply with the flatness requirements specified in the above table when measured in accordance with EN 438-2, Clause 9. The flatness values specified in the above table apply to laminates with two decorative faces. Limits for laminates with one face sanded shall be agreed between supplier and customer.

Alphabetical Classification System

First letter C	C (Compact Grade)	Second letter	G (General purpose)	Third letter	S (Standard Grade)
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Surface Performance of Natural, Nuance & Chalk Finishes (Tested to EN 438-2: 2005)

		Test Method		Unit	Values
Prop	erty	(EN438-2: 2005 Clause No.)	Property or Attribute	(Max. or Min.)	CGS
	Surface Wear	10	Wear Resistance	Revolutions (min.) Initial point Wear value	150 350
	Impact	21	Drop Height	mm (min.)	
	by Large			2 ≤ t < 6	1400
	Diametre Ball c)			6 ≤ t	1800
	Ball 97			(t = nominal thickness)	
	Scratching ^{d)}	25	Force	Rating (min.)	
	scratching-			Textured Finishes	3 = 2N
Resistance to	Immersion in Boiling Water	12	Mass increase Thickness Increase Appearance	% (max.) 2 mm ≤ t < 5 mm t ≥ 5 mm % (max.) 2 mm ≤ t < 5 mm t ≥ 5 mm (t = nominal thickness)	5.0 2.0 6.0 2.0
			Rating (min.)		
				Textured finish	4
	Water Vapour	14	Appearance	Rating (min.) Other Finishes	4
	Wet Heat at 100°C	EN12721	Appearance	Rating (min.) Other finishes	4
	Dry Heat at	16	Appearance	Rating (min.)	
	160°C			Other finishes	4
	NA - 1 - 4	ISO 2924.1:1998	Appearance		4
	Moisture	26			
		26	Appearance	Rating (min.)	
	Staining			Groups 1&2	5
				Group 3	4
	Crazing	24	Appearance	Grade (min.)	4

^{*} Tolerances for cut-to-size panels shall be agreed between supplier and customer.





Surface Performance of Natural, Nuance & Chalk Finishes (Tested to EN 438-2: 2005)

	Test Method		Unit	Values
Property	(EN438-2: 2005 Clause No.)	Property or Attribute	(Max. or Min.)	CGS
Dimensional stability at elevated temperature	17	Cumulative Dimensional Change	% (max) 2 mm ≤ t < 5 mm L a) 2 mm ≤ t < 5 mm T b) t ≥ 5 mm L t ≥ 5 mm T (t = nominal thickness)	0.40 0.80 0.30 0.60
Flexural Modulus	EN ISO 178	Stress	Mpa (min.)	9000
Flexural Strength	EN ISO 178	Stress	Mpa (min.)	80
Tensile Strength	EN ISO 527	Stress	Mpa (min.)	60
Density	EN ISO 1183	Density	kg/m³ (min.)	1350
Antibacterial Activity and Efficacy	JISZ2801:2000 Referred by ISO 22196			Compliance
Antifungal	ASTMG21-09		Rating < 1	Inhibits growth on the surface according to ASTMG21-09
Compliance with the Demands of Food Contact Materials				Official collection of testing methods according to Rules and Regulations of the EC and EU community.

a) L = in the longitudinal (or machine) direction of the fibrous sheet material (normally the direction of the longest dimension of the laminate).
b) T = in the cross-longitudinal (cross-machine) direction of the fibrous sheet material (at right angles to direction L).
c) When tested to specified drop height the diameter of the indent shall not exceed 10mm

d) Minimum 1N for darker colours.

Surface Performance of AbsoluteMatte (Tested to ISO 4586-2)

Attribute		Minimum Values						
	Surface Wear		ar ≥ 150 cycle wear ≥ 350 cycles					
	Immersion in Boiling Water	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles						
Resistance to	Water Vapour	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles						
	Wet Heat at 100°C	''	Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles					
	Dry Heat at 160°C		Appearance rating not worse than 4 Slight change of gloss and/or colour, only visible at certain viewing angles					
Dimensional statemperature	bility at elevated	Longitudinal direction: Maximum cumulative change 0.30 % Transverse direction: Maximum cumulative change 0.60 %						
	Impact	Large diameter ball > 1800mm						
	Cracking under stress/crazing		nce rating not worse than 4 cracks only visible under 6X magnification					
	Scratching	Rating =	3 (Force ≥ 2 Newton)					
Resistance to		Groups 1 & 2	Acetone Coffee (120g of coffee per litre of water)	Appearance rating not worse than 5 No visible change				
Staining		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				
Lightfastness Contrast: Grey scale rating ≥ 4 When tested in contrast with Blue wool 6 Ref: ISO 105-A02			.02					





Typical Properties (Typical Values)

Attribute	Tested to	Unit	Requirement
Physical Properties			
Specific Gravity (minimum)	EN 438-4	kg/m³	≥ 1350
Weight 13 mm thickness	EIN 430-4	kg/m²	18.5
Weight 18 mm thickness		kg/m²	25.2
Fire hazard indices		Range	
Ignitability	AS/NZS 1530.3	0-20	10
Spread of flame		0-10	0
Heat Evolved		0-10	2
Smoke Developed		0-10	4
Cone Calorimeter			
Group number	AS/NZS 3837	1-3	3
Average specific extinction area -13mm		m²/kg	8

Surface Quality (Tested to EN438-2:2005)

Attribute	Minimum Values
	Viewing distance 0.75 to 1.5m from laminate surface
Inspection Guidelines	Light intensity approximately 800 to 1000 lx at the laminate surface
	Overhead white fluorescent lights, of colour temperature approximately 5000K
Dirt, Spots & Similar Surface	The admissible size of defects is based on a maximum contamination area equivalent to 1.0mm²/m² and is proportional to the sheet size under inspection
Defects	The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects
Fibras Mains 9. Savatabas	The admissible size of defects is based on a maximum contamination length equivalent to 10mm/m² and is proportional to the sheet size under inspection
Fibres, Hairs & Scratches	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 2.0mm²/m² and is proportional to the sheet size under inspection
indentations	The total admissible area of contamination may be concentrated in one spot or dispersed over an unlimited amount of smaller defects

Specialty Performance for AbsoluteMatte

Attribute	Tested to	Minimum Values		
=	AS/NZS 3837 (In accordance to AS5637.1)	Group Number	3	
Fire Hazard Properties		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.			





Specialty Performance for AbsoluteMatte

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: Staphylococcus aureus (ATCC 6538P) Escherichia coli (ATCC 8739) Methicillin resistant Staphylococcus aureus (NCTC 12493) Pseudomonas aeruginosa (ATCC 15442) Salmonella chloeraesius (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: • Aspergillius 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/m²h	≤ 3.5
Volatile Organic Compounds (VOC's)	ASTM D5116	mg/m²/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.

Staining Agents & Groups (Tested to EN 438-4)

Attribute	Staining Agent		Test Conditions	Contact Time
Group 1	Other organic solvents	Salt (NaCl) solutions	Apply staining	16 hours
*Acetone	Toothpaste	Mustard	agent at ambient temperature	
	Hand cream	Lyes, soap solutions		
	Urine	Cleaning solution consiting of:		
	Alcoholic beverages	• 23% dodecylbenzene sulfonate		
	Natural fruit and vegetable juices	• 10% alkyl aryl polyglycol ether		
	Lemonade and fruit juices	• 67% water		
	Meats and sausages	Commercial disinfectants		
	Animal and vegetable fats and oils	Stain or paint removers based on		
	Water	organic solvents		
	Yeast suspension in water	Citric Acid (10% solution)		







Staining Agents & Groups (Tested to EN 438-4)

Attribute	Staining Agent		Test Conditions	Contact Time
Group 2 *Coffee	Coffee (120g of coffee per litre of water)	Black (9g of tea per litre of water) Milk (all types)	Apply staining agent at approximately 80°C	16 hours
	Wine vinegar Alkaline-based cleaning agents (to 10% concentration with water) Hydrogen peroxide (3% solution) Ammonia (10% solution of commercial concentrate) Nail varnish	Nail varnish remover Lipstick Water colours Laundry marking links Ball point inks	Apply staining agent at ambient temperature	16 hours
Group 31 *Sodium hydroxide *Hydrogen peroxide *Shoe polish	*Sodium hydroxide (25% solution) *Hydrogen peroxide (30% solution) Concentrated vinegar (30% acetic acid) Bleaching agents and sanitary cleaners containing them Hydrochloric acid based cleaning agents (\$\infty\$3% HCl) Acid-based metal cleaners Mercurochrome (2,7-diabromo-4-hydroxymercurifluoresein, disodium salt)	*Shoe polish Hair colouring and bleaching agents lodine Boric acid Lacquers and adhesives (except fast curing materials) Amidosulfonic acid descaling agents (< 10% solution)	Apply staining agent at ambient temperature	10 minutes

¹⁾ Some commercial cleaning agents contain acids and alkalis in concentrations stronger than those shown in Group 3 and can cause surface marking or damage. Any spillage of such materials must be washed off immediately.



Laminex Multipurpose Compact with Protec+ contains antifungal and antibacterial resistant properties which do not wash off or leach out of the surface. It is safe for use in food preparation and processing activities and can be in direct contact with food, provided that good hygiene practices are followed.





Important Information

Note		Details
W ONLY use for internal ap	plications	Claims arising from non-internal applications are not covered under warranty
W DO NOT expose to prolo	nged 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
W Use of different surface installation may result in	materials within a single 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
W Use of directional design orientations may result i	s or finishes in opposing n 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 instance any fabrication activity	spected prior to commencing	Claims arising from defects or variation clearly detectable prior to fabrication, will not be covered under warranty for labour costs or penalties
W USE compact laminate s purchase	heets within 12 months of	Claims arising from performance failure during fabrication that is directly attributable to the age of the laminate, are not covered under warranty
W DO NOT postform lamin	ate	Claims arising from blisters, cracks, micro-crazing or other failure modes directly attributable to postforming fabrication, are not covered under warranty
W ALL Protec+• laminate su cleaned to maintain ant		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
W 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
W DO NOT use decorative t	face as a cutting surface	Claims arising from physical damage of the decorative surface are not covered under warranty
(W) DO NOT expose to heat.	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
DO NOT expose to field,		Claims arising from damage due to hot objects, such as saucepans or irons, contacting the decorative surface, are not 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) Denotes specific warranty conditions apply

Warranty DocumentTo 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.