



# Decorative Laminate - Velour

## Technical Data Sheet

Formica® Decorative Laminate is a postforming high pressure decorative laminate. Internal or external curves can be formed down to a recommended minimum radius of 10mm for solid colours, while patterns and woodgrains can be formed to a radius of 8mm in the machine direction (MD).

### APPLICATIONS

- Benchtops
- Wall Panels
- Desktops & Tabletops
- Vanities
- Cabinetry -Doors & Drawers

### FUNCTIONAL BENEFITS

Horizontal Application	Vertical Application	Stain Resistant	Heat Resistant	Water Resistant	Scratch Resistant	UV Stable Indoor Use

## Product Characteristics

ATTRIBUTE	DESCRIPTION
Product Category	High Pressure Laminate
Substrate Type	-
Sheet Size (nominal)	3600mm x 1500mm
Thickness (nominal)	0.7mm
Weight (Kg/m2 approx.)	1.0
Finish	Velour
Colour/Pattern	To view the full range, please visit <a href="http://www.formica.com.au">www.formica.com.au</a>

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### 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

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### 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 is based on a maximum contamination area equivalent to 1.0mm <sup>2</sup> /m <sup>2</sup> 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 <sup>2</sup> 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

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### Surface Performance

(Tested to ISO 4586-2)

ATTRIBUTE	MEASUREMENT	
Resistance to Surface Wear	Initial wear $\geq$ 150 cycles. Average wear $\geq$ 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 $\geq$ 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 $\geq$ 2 Newton)	
Resistance to Staining	Groups 1 & 2 Acetone Coffee (120g of coffee per litre of water)	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 $\geq$ 4 When tested in contrast with Blue wool 6 Ref: ISO 105-A02	

### 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)	64.3 m <sup>2</sup> /Kg	
Resistance to Blistering	ISO 4586-2	Time to blister (Tempilaq to blister)	$\geq$ 15 sec	
Postform Bending	Regular Forming	Solid Colours	Stone, Print & Woodgrain	
	Internal Radius	MD	10mm	8mm
	Cove Radius	MD	10mm	8mm

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### Emissions & Environmental Performance

ATTRIBUTE	TESTED TO:	UNITS	MEASUREMENT
Formaldehyde	ISO 12460-3	mg/m <sup>2</sup> h	≤ 1.0
Volatile Organic Compounds (VOC's)	ASTM D5116	mg/m <sup>2</sup> /h	≤ 0.5

### Important Information

NOTE	DETAILS
(W) ONLY use for internal applications	Claims arising from non-internal applications are not protected under warranty
(W) DO NOT use for laboratory benchtops	Claims arising from use as a benchtop in laboratories with expected chemical use are not covered under warranty
(W) DO NOT use with undermount sink	Claims arising from water ingress, delamination or other faults directly attributable to the installation of an undermounted sink, 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 protected under warranty  Claims arising from use in windowsill applications are not covered under warranty
(W) 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
(W) 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 covered under warranty
(W) 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  Claims arising from trapped debris not removed prior to press bonding, resulting in indentations within the laminate surface, are not covered under warranty
(W) 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
(W) DO NOT allow the protective film to remain on the laminate surface for more than 9 months	Claims arising from film removal difficulties or residual glue on the surface of the laminate, directly attributable to the age of the protective film, are not covered under warranty
(W) 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
(W) ONLY postform laminate in the Machine Direction (MD)	Claims arising from postforming laminate in the cross direction is not covered under warranty
(W) ONLY postform laminate to the declared "Regular Forming" radius	Claims arising from postforming laminate to radii less than the declared "Regular Forming" performance, are not covered under warranty  Some laminates are capable of tighter bending radii, however this is dependent upon the type and condition of equipment used, the tuning & maintenance of which is outside Laminex's control.
(W) ONLY cold form laminate when bonded to Craftform® MDF	Claims arising from bending radii of less than 200mm, adhesion failure or spring back, are not covered under warranty

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NOTE	DETAILS															
<p>(W) ONLY use recommended hinge quantities</p>	<p>Claims arising from bow, warp or twisting due to too few hinges or inappropriate door sizes or weights, are not covered under warranty</p>															
	<table border="1"> <thead> <tr> <th>Door Height (mm)</th> <th>Door Weight (Kg)</th> <th>No. of Hinges</th> </tr> </thead> <tbody> <tr> <td>≤ 900 mm</td> <td>≤ 9 Kg</td> <td>2</td> </tr> <tr> <td>≤ 1600 mm</td> <td>≤ 15 Kg</td> <td>3</td> </tr> <tr> <td>≤ 2000 mm</td> <td>≤ 19 Kg</td> <td>4</td> </tr> <tr> <td>≤ 2400 mm</td> <td>≤ 23 Kg</td> <td>5</td> </tr> </tbody> </table>	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
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<p>Claims arising from bow, warp or twisting of doors greater than 600mm wide, are not covered under warranty</p>																
<p>Claims arising from bow, warp or twisting of single piece doors greater than 1800mm high, are not covered under warranty. Pantry doors should use split door construction, where joinery brackets or connecting dowels can be used to join the two doors together</p>																
<p>Claims arising from the effect of heat or moisture ingress attributable to exposed edges of panels, are not covered under warranty</p>																
<p>(W) DO NOT leave the edges unsealed</p>	<p>Claims arising from bonding directly to non-recommended surfaces, including but not limited to: plaster, plasterboard, masonry or concrete, are not covered under warranty</p>															
<p>(W) ONLY bond directly to Particleboard and Medium Density Fibreboard</p>	<p>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</p>															
<p>(W) DO NOT apply a coating to the surface</p>	<p>Claims arising from physical damage of the decorative surface are not covered under warranty</p>															
<p>(W) DO NOT use decorative face as a cutting surface</p>	<p>Claims arising from frequent or excessive exposure to heat or moisture are not covered under warranty</p>															
<p>(W) DO NOT expose to heat, hot gases or moisture</p>	<p>Claims arising from damage due to hot objects, such as saucepans or irons, contacting the decorative surface, are not covered under warranty</p>															
<p>(W) ONLY use recommended Care &amp; Maintenance methods</p>	<p>Claims arising from staining or damage attributable to not following Care &amp; Maintenance instructions, are not covered under warranty</p>															

(W) Denotes specific warranty conditions apply