

# polytec COMPACT laminate

polytec's high pressure COMPACT Laminate is the ultimate in long lasting, low maintenance decorative panels, for the most demanding hardworking environments.

## Features

- Tough and durable
- Distinctive black core
- Extensive colour range
- Sheet size 3660 x 1830mm, 4270mm x 1830mm
- Available in 2mm up to 25mm substrate
- Impervious to water
- Outstanding stain and wear resistance

## Product Properties

PHYSICAL PROPERTIES	UNIT	TYPICAL PROPERTY	TEST METHOD
Density	Kg/m <sup>3</sup>	1350 - 1450	ASTM D 792-1
<b>Dimensional Tolerance</b>			
Length	mm	±5	BS EN 438-2
Width	mm	±5	
Thickness	mm	±0.5	
Colour Stability		Blue wool standard Min 6	BS EN 438-2
Thickness Swell (24hr @ 20°C)	%	≤ 0.1	BS EN 317
Tensile Strength	N/mm <sup>2</sup>	>80	DIN 53457
Flexural Strength	N/mm <sup>2</sup>	>100	DIN 53457
Resistance to Impact	N	>20	BS EN 438-2
Resistance to Scratch	N	≥ 3	BS EN 438-2
Resistance to Wear	Revolutions	≥ 350	BS EN 438-2
Resistance to Steam		≥ 4	BS EN 438-2
<b>Dry Heat Resistance, 180°C</b>			
Finishes		≥ 4	BS EN 438-2
<b>Resistance to Staining</b>			
Group 1 + 2		≥ 5	BS EN 438-2
Group 3 + 4		≥ 4	
Resistance to Boiling Water		No Visible Change	BS EN 438-2
Dimensional Stability at elevated temperature	%	L ≤ 0.3 , T ≤ 0.6	BS EN 438-2
Flatness	mm/m	2mm - 6mm ≤ 8 7mm - 10mm ≤ 5 11mm - 25mm ≤ 3	BS EN 438-2

## Fire Tests

EARLY FIRE HAZARD INDICES TO AS/NZS 1530.3	CAS No
Ignitability Index:	10 - 12
Spread of flame index:	0 - 4
Heat evolved index	2 - 4
Smoke developed index:	2 - 4

Classified as Group 3 in accordance with specification C1.10 section 4 of BCA.

## Chemical Resistance Properties

**polytec** High Pressure Laminates (HPL & CL) are resistant to most common chemicals and substances. Test results meet the requirements of International Standard ISO 4586-2 which specifies resistance to staining by substrates which are encountered in daily usage and some aggressive materials commonly used in laboratories.

PERFORMANCE	CHEMICAL
No Visible Effect	Water, alcohol 96%, isopropanol, Petrol, amy1 acetate, acetone, household soap, detergents for dishwashing by hand, ammonium hydrate 10%, ketchup, cooking oil, trisodium phosphate 1%, coffee, tea, milk, acetic acid, caustic soda (<10%), citric acid 10%, wine, lipstick, grapefruit juice, wax, shoe polish, ink ballpoint pen, spirit dye pen, marking ink, hand cream
Slight Effect/ No Effect if completely removed within 10 - 15 minutes	Hydrogen Peroxide 30%, hypochloric bleach, hair dye, mercury chromate 2%, iodine 0.1%, hydrochloric acid (<10%), caustic soda (>10%)
Surface Attack / Necessitating immediate removal	Hydrochloric Acid (>10%), nitric acid (>10%), Sulphuric Acid (>10%)

## Environmental / Safety

**polytec** is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health and environmental protection. We support the safe handling of our products.

## Contact

For further information on this product, please contact the following:

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