

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
- Sheet size 2440 x 1830mm, 3660 x 1830mm, 2730mm x 1830mm, 2440mm x 1220mm
- Available in 5mm, 13mm and 18mm substrate
- Outstanding stain and wear resistance, impervious to water

Note: Benchtops should be pre-drilled prior to cutouts, leaving a 10mm radius in corners. Internal corners should not be square which may cause cracking.

Product Properties

PROPERTY	UNIT	TYPICAL PROPERTY	TEST METHOD
Density	Kg/m ³	1350 - 1450	ASTM D 792-1
Panel Tolerance			
Length	mm	±5	AS/NZS 2924.1
Width	mm	±5	
Thickness	mm	±0.5	
Colour Stability		Blue wool standard Min 6	AS/NZS 2924.1
Thickness Swell (24hr @ 20°C)	%	≤ 0.1	EN 317
Tensile Strength	N/mm ²	>80	DIN 53457
Flexural Strength	N/mm ²	>100	DIN 53457
Resistance to Impact	N	≥ 20	AS/NZS 2924.1
Resistance to Scratch	N	≥ 2	AS/NZS 2924.1
Resistance to Surface Wear	Revolutions	≥ 350	AS/NZS 2924.1
Resistance to Steam		≥ 4	AS/NZS 2924.1
Dry Heat Resistance, 180°C		≥ 4	AS/NZS 2924.1
Resistance to Staining			
Group 1 + 2		≥ 5	
Group 3 + 4		≥ 4	AS/NZS 2924.1
Flatness	mm/m	5mm ≤ 8 13mm ≤ 5	AS/NZS 2924.1
Indicative Weight	Kg/m ²		
5mm thickness		7	
13mm thickness		18	
18mm thickness		25	
Dimensional Stability at elevated temperature	%	L ≤ 0.3 , T ≤ 0.6	AS/NZS 2924.1

Fire Tests

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. **polytec** Compact laminate is designed for indoor and outdoor undercover use and is warranted against delamination. The product should always be protected against direct sunlight as continuous exposure may cause discolouration or fading over time.

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%)

polytec Compact laminate is moisture resistant and durable. However Compact laminate should not be immersed in or be exposed to water for lengthy periods as this may cause moisture permeation.

Weights

THICKNESS		DENSITY		WEIGHT		
(mm)	(kg/m3)	(kg/m2)	2440 x 1830	2730x1830	2440x1220	3660 x 1830
5	1350-1450	7.00	31.26	34.97	20.84	46.88
13	1350-1450	18.00	-	-	-	120.56
18	1350-1450	25.00	-	-	-	167.45

Environmental / Safety

polytec Compact laminate meets Formaldehyde Class E1 requirement as per BS EN 13986.

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:

Borg Manufacturing (ABN 31 003 246 357), 1090 Pacific Hwy, Somersby, NSW 2250, Australia

Telephone: 02 4340 9800 or 1300 300 547 Fax: 02 4340 5841 or 1300 320 547

Whilst the information contained in this document is based on data, which, to the best of our knowledge, was accurate and reliable at the time of preparation, we can accept no responsibility for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage caused by any person acting or refraining from action as a result of this information.