polytec technical data sheet

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
- Available in 5mm and 13mm 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/m3	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 Group 3 + 4		 ≥ 5 ≥ 4	 AS/NZS 2924.1
Flatness	mm/m	5mm ≤ 8 13mm ≤ 5	AS/NZS 2924.1
Indicative Weight 5mm thickness 13mm thickness	Kg/m2	 7 18	
Dimensional Stability at elevated temperature	%	L ≤ 0.3 , T ≤ 0.6	AS/NZS 2924.1

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.

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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 products 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%)

Weights

THICKNESS	DENSITY	WEIGHT		
(mm)	(kg/m3)	(kg/m2)	2440 x 1830	3660 x 1830
5	1350-1450	7.00	30.24	45.36
13	1350-1450	18.00	77.76	116.64

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
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