

polytec



Technical Data Sheet

COMPACT laminate

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GENERAL INFORMATION

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

FEATURES AND BENEFITS

- Tough and durable
- Distinctive black core
- Sheet sizes: 3660 x 1830mm;
2440 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.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULT
Density	ISO 1183-1	$\geq 1350 \text{ kg/m}^3$
Panel Tolerance	AS/NZS 2924.2	
Length		+ 10 mm, - 0 mm
Width		+ 10 mm, - 0 mm
Thickness		
$2.0 \leq d \leq 3.0 \text{ mm}$		$\leq \pm 0.20 \text{ mm}$
$3.0 \leq d \leq 5.0 \text{ mm}$		$\leq \pm 0.30 \text{ mm}$
$5.0 \leq d \leq 8.0 \text{ mm}$		$\leq \pm 0.40 \text{ mm}$
$8.0 \leq d \leq 12.0 \text{ mm}$		$\leq \pm 0.50 \text{ mm}$
$12.0 \leq d \leq 16.0 \text{ mm}$		$\leq \pm 0.60 \text{ mm}$
$16.0 \leq d \leq 20.0 \text{ mm}$		$\leq \pm 0.70 \text{ mm}$
(where d is nominal thickness)		
Colour Stability	AS/NZS 2924.2	≥ 4
Thickness Swell (24 Hours)	AS/NZS 4266.1	$\leq 0.1 \%$
Flexural Strength	ISO 178	$\geq 80 \text{ MPa}$
Tensile Strength	ISO 527-2	$\geq 60 \text{ MPa}$
Resistance to Surface Wear	AS/NZS 2924.2	≥ 350
Resistance to Immersion in Boiling Water	AS/NZS 2924.2	≥ 4
Resistance to Water Vapour	AS/NZS 2924.2	≥ 4
Resistance to Dry Heat (180°C)	AS/NZS 2924.2	≥ 4
Resistance to Impact	AS/NZS 2924.2	
$2.0 \leq d \leq 6.0 \text{ mm}$		$\geq 1400 \text{ mm}$
$6.0 \leq d \text{ mm}$		$\geq 1800 \text{ mm}$
(where d is nominal thickness)		
Resistance to Scratch	AS/NZS 2924.2	≥ 3
Resistance to Staining	AS/NZS 2924.2	
Group 1+2		5
Group 3		≥ 4
Dimensional Stability at Elevated Temperature	AS/NZS 2924.2	
		$L \leq 0.3 \%$
		$T \leq 0.6 \%$
Flatness	AS/NZS 2924.2	
$2.0 \leq d \leq 6.0 \text{ mm}$		$\leq 8.0 \text{ mm/m}$
$6.0 \leq d \leq 10.0 \text{ mm}$		$\leq 5.0 \text{ mm/m}$
$10.0 \leq d \text{ mm}$		$\leq 3.0 \text{ mm/m}$
(where d is nominal thickness)		

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WEIGHT AND DENSITY

THICK mm	DENSITY		TYPICAL PRODUCT WEIGHT			
	kg /m ³	kg /m ²	2440 x1830	2730 x1830	2440 x1220	3660 x1830
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

FIRE TESTS

Classified as Group 3 in accordance with specification C110 section 4 of BCA.

CHEMICAL RESISTANCE PERFORMANCE

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 on surfaces 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.

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No visible effects

Water, alcohol (96%), isopropanol, Petrol, amyl 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.

ENVIRONMENTAL

At **polytec**, sustainability is ingrained in the core of our business operations, products, and work practices. Our continual dedication to improving and appropriately managing the environmental impact of our products involves our commitment to steadfastly reducing our carbon footprint, minimising waste, optimising energy efficiency and integrating ethically sourced materials into our product ranges.

CONTACT

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