



polytec

## Technical Data Sheet

# HPL

## High Pressure Laminate

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## GENERAL INFORMATION

polytec's range of Laminate and Benchtops are designed for applications such as kitchen worktops, countertops, bathroom vanities and laundry benchtops where a durable decorative surface is required.

## FEATURES AND BENEFITS

- Tough and durable
- Resistant to cracking, chipping, chemicals and reagents
- Industry relevant colour range
- Standard Laminates (Non-Postformable) and Postformable Laminates to Tight Form in most colours on 21mm, 33mm, and 39mm substrate

**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
<b>Density</b>	ISO 1183-1	≥ 1350 kg/m <sup>3</sup>
<b>Panel Tolerance</b>	AS/NZS 2924.2	
Length		+ 10 mm, - 0 mm
Width		+ 10 mm, - 0 mm
Thickness		
0.5 ≤ <i>d</i> ≤ 1.0mm (where <i>d</i> is nominal thickness)		≤ ± 0.10 mm
<b>Colour Stability</b>	AS/NZS 2924.2	≥ 4
<b>Thickness Swell (24 Hours)</b>	AS/NZS 4266.1	≤ 3.5 %
<b>Resistance to Surface Wear</b>	AS/NZS 2924.2	≥ 350
<b>Resistance to Immersion in Boiling Water</b>	AS/NZS 2924.2	≥ 4
<b>Resistance to Water Vapour</b>	AS/NZS 2924.2	≥ 4
<b>Resistance to Dry Heat (180°C)</b>	AS/NZS 2924.2	≥ 4
<b>Resistance to Impact</b>	AS/NZS 2924.2	≥ 800mm
<b>Resistance to Scratch</b>	AS/NZS 2924.2	≥ 3
<b>Resistance to Staining</b>	AS/NZS 2924.2	
Group 1+2		5
Group 3		≥ 4
<b>Dimensional Stability at Elevated Temperature</b>	AS/NZS 2924.2	L ≤ 0.55 % T ≤ 1.05 %
<b>Flatness</b>	AS/NZS 2924.2	≤ 60 mm/m

## WEIGHT AND DENSITY

THICK	DENSITY		TYPICAL PRODUCT WEIGHT				
mm	kg /m <sup>3</sup>	kg /m <sup>2</sup>	3660 x1360	3660 x680	1825 x1360	1825 x680	3660 x1220
0.7	1400	0.9	4.26	2.23	2.23	1.11	4.00

## FIRE TESTS

Classified as Group 1 in accordance with specification C110 section 4 of BCA.

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### CHEMICAL RESISTANCE PERFORMANCE

**polytec** High Pressure Laminates (HPL) 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.

**polytec** always recommend prompt clean-up of all spills on its decorative surfaces and the surface maintained in accordance with our Care & Maintenance instructions.

#### 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%), hypochlorite bleach, hair dye, mercury chromate (2%), iodine, hydrochloric acid (<10%), phosphoric acid (10%), caustic soda (>10%)

#### Surface attack/necessitating immediate removal

Hydrochloric Acid (>10%), nitric acid (>10%), Sulphuric Acid (>10%)

### 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

For further information contact:

**Porta Products Pty. Ltd.** (ABN 31 003 246 357)

**Address** 2 Wella Way,  
Somersby NSW 2250,  
Australia

**Telephone** 1300 300 547

**Fax** 1300 320 547

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