



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
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		
$0.5 \leq d \leq 1.0\text{mm}$ (where d is nominal thickness)		$\leq \pm 0.10 \text{ mm}$
Colour Stability	AS/NZS 2924.2	≥ 4
Thickness Swell (24 Hours)	AS/NZS 4266.1	$\leq 3.5 \%$
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	$\geq 800\text{mm}$
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	$L \leq 0.55 \%$ $T \leq 1.05 \%$
Flatness	AS/NZS 2924.2	$\leq 60 \text{ mm/m}$

WEIGHT AND DENSITY

THICK	DENSITY		TYPICAL PRODUCT WEIGHT				
mm	kg /m ³	kg /m ²	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

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