

# **HPL**

High Pressure Laminate - Digital



# HPL High Pressure Laminate - Digital / Technical Data Sheet

## **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 33, 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	ASTM D 792-1	1350 — 1450 kg/m³
Panel Tolerance	BS EN 438-2	
Length		± 5 mm
Width		± 5 mm
Thickness		± 0.1 %
Colour Stability	BS EN 438-2	≥ 6
		(blue wool
		scale)
Thickness Swell (24 Hours)	BS EN 317	≤ 3.5 %
Resistance to Impact	BS EN 438-2	> 20 N
Resistance to Scratch	BS EN 438-2	≥ 3 N
Resistance to Wear	BS EN 438-2	≥ 350 cycles
Resistance to Steam	BS EN 438-2	≥ 4
Dry Heat Resistance (180°C)	BS EN 438-2	
Finishes		≥ 4
Resistance to Staining	BS EN 438-2	
Group 1+2		≥ 5
Group 3+4		≥ 4
Resistance to Boiling Water	BS EN 438-2	No visible
		change
Dimensional Stability at	BS EN 438-2	L ≤ 0.7 %
Elevated Temperature		T ≤ 1.2 %

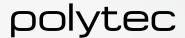
## **WEIGHT AND DENSITY**

THICK	DEN	SITY		TYPICAL PRODUCT WEIGHT			
mm	kg	kg	3660	3660	1825	1825	3660
	/m <sup>3</sup>	/m²	x1360	x680	x1360	x680	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 C1.10 section 4 of BCA.

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## CHEMICAL RESISTANCE PERFORMANCE

**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, 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%, 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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