Porta Limited
NZBN 9429052693182

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polytec

Technical Data Sheet

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/m^3
Panel Tolerance Length Width Thickness	BS EN 438-2	 ± 5 mm ± 5 mm ± 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) Finishes	BS EN 438-2	 ≥ 4
Resistance to Staining Group 1+2 Group 3+4	BS EN 438-2	 ≥ 5 ≥ 4
Resistance to Boiling Water	BS EN 438-2	No visible change
Dimensional Stability at Elevated Temperature	BS EN 438-2	L ≤ 0.7 % T ≤ 1.2 %

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 C1.10 section 4 of BCA.

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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