

polytec
laminates



Technical Data Sheet

HPL

High Pressure Laminate

HPL High Pressure Laminate / Technical Data Sheet

GENERAL INFORMATION

polytec's range of Laminate is designed for applications such as kitchen worktops, countertops, bathroom vanities and laundry benchtops, furniture, cabinets, benchtops, walls, ceilings, floors, and doors 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

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULT
Density	ISO 1183-1	≥ 1350kg/m ³
Panel Tolerance	EN 438-3	
Length		+ 10 mm, - 0 mm
Width		+ 10 mm, - 0 mm
Thickness		≤ ± 0.10 mm
0.5 ≤ <i>t</i> ≤ 1.0mm (where <i>t</i> is nominal thickness)		
Colour Stability	EN 438-3	≥ 4
Thickness Swell (24 Hours)	EN 317	≤ 3.5 %
Resistance to Surface Wear (Initial Point)	EN 438-3	≥ 150 revolutions
Resistance to Immersion in Boiling Water	EN 438-3	≥ 4
Resistance to Water Vapour	EN 438-3	≥ 4
Resistance to Dry Heat (160°C)	EN 438-3	≥ 4
Resistance to Impact (Large Diameter Ball)	EN 438-3	≥ 800mm (Drop Height)
Resistance to Scratch	EN 438-3	≥ 3
Resistance to Staining	EN 438-3	
Group 1+2		5
Group 3		≥ 4
Dimensional Stability at Elevated Temperature	EN 438-3	L ≤ 0.55 % T ≤ 1.05 %
Flatness	EN 438-3	≤ 60 mm/m

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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, 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 AND SAFETY

polytec is committed to ensuring that its products can be manufactured, transported, stored, used, disposed and recycled with an appropriate regard for safety, health and environmental protection. We support the safe handling of our products.

CONTACT

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