



### DESCRIPTION

Thermopal® Decorative High Pressure Laminate (HPL) is a postforming grade laminate. Thermopal® HPL provides a durable surface in a variety of unique decors and surface structures. Chemical resistant and reflective of current market trends, Thermopal® HPL is suitable for horizontal or vertical applications.

### APPLICATIONS

Thermopal® HPL is suitable for domestic or commercial interior joinery and is widely used for applications to countertops, benchtops, partitions, store fixtures, decorative paneling, door and drawer fronts and other applications that require an aesthetic finish which is durable, stain and heat resistant from ordinary sources.

### PRODUCT CHARACTERISTICS

<b>Nominal Thickness</b>	0.8mm ± 0.10mm permissible deviation
<b>Density</b>	1500kg/m <sup>3</sup> (ISO 1183)
<b>Standard Sheet Size</b>	5300mm x 2020mm – selected decors* 2750mm x 2020mm – selected decors*
<b>Surface Finishes &amp; Colour Range</b>	Refer to the current Availability Chart & Decorative Surfaces Sample Folder

\* Please check with your local customer services for stock sheets sizes of your selected Thermopal décor.

### TECHNICAL DATA

Note: Thermopal® laminates are tested and conform to DIN EN 438 / ISO 4586.1.1995 / AS/NZS 2924.1.1998 results published below refer to this standard unless otherwise stated.

Test	Result
<b>Post formability</b>	Thickness 0.8mm – 8mm radius
<b>Abrasion behaviour</b>	375-500 cycles
<b>Impact strength</b>	20N (11 small diameter ball)
<b>Scratch resistance</b>	1.5 N – smooth textures 3 N – medium to deep textures

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**TECHNICAL DATA - continued**

<b>Resistance to staining</b>	Group 1 & 2	5 – No visible change
	Group 3 & 4	4 – Moderate change of gloss / colour
<b>Resistance to steam</b>		3 – 4 Slight change of gloss / colour only visible at certain viewing angles depending on surface structure
<b>Resistance to cigarette burns</b>		3 – moderate change of gloss or slight brown staining
<b>Fire Test (AS/NZS 1530.3)</b>		
Ignitability index (0-20)		14
Spread of flame index (0-10)		0
Heat evolved index (0-10)		0
Smoke developed (0-10)		3
<b>Cone Calorimeter (AS/NZS 3837)</b>		B1 Group number
		155.8 m <sup>2</sup> /kg Average specific extinction area
<b>Colour fastness</b>		4-5 Grey scale

**ENVIRONMENTAL DATA**

<b>Quality Management System</b>	ISO 9001 (LGA – InterCert)
<b>Environmental Management System</b>	ISO 14001 (LGA – InterCert)
<b>VOC</b>	PAH (GA – TUV Rheinland)
	Certificate of conformity (ISEGA)

**CHEMICAL RESISTANCE**

Thermopal® High Pressure Laminates are resistant to all common disinfectants, most common chemicals and substances. Organic solvents such as acetone and alcohol leave no residue on the surface.

The same applies to the following substances:

ascorbic acid	cooking salt	ink	sulphur
benzene dextrose	ethanol	Insecticide	urine
blood	fats & oils	lacquers	vinegar
chloral hydrate	formalin	nail varnish & remover	wine/wine acid etc
coffee, caffeine	glycerin	paints	xylene

Also, no changes in surface structure occur should the following substances be spilt and left on the surface for a short time (10-15 minutes). Surfaces must be wiped with a wet cloth within 10-15 minutes, and then dried.

Aminsulphonic acid ( up to10%)	Hair dye and bleach	Potassium chromate
Aniline dye	Hydrochloric Acid (up to 10%)	Potassium dichromate
Anorganic acids (up to 10%)	Hydrogen peroxide (above 3-30% perhydrole)	Potassium hydrogen sulphate
Arsenic Acid (up to 10%)	Iodine solution	Potassium iodide
Boric Acid	Limescale remover	Potassium permanganate
Caustic potash solution (over 10%)	Mercury chloride solution	Potassium salt solution (above 10%)
Caustic soda lye (over 10%)	Mercury dichromate	Silver nitrate
Chemical cured paints & adhesives	Methyl blue	Sodium sulphate
Esbachs reagent	Millons reagent	Sodium hypochloride
Ferric Chloride	Nitric acid (up to 10%)	Sodium thiosulphate
Ferrous Chloride	Nylanders reagent	Sulphuric acid (up to 10%)
Formic acid (above 10%)	Oxalic acid	Sulphurous acid (up to 10%)
Fuchsine	Phosphorous acid (up to 10%)	
Gentian violet	Picronitric acid	

The following chemicals listed below will damage the surface of Thermopal HPL and should be removed immediately. Even short exposure is sufficient to cause the surface to become dull and rough.

**Chemical concentrations above 10%.**

Aminosulphic acid	Hydrochloric acid	Nitrohydrofluoric acid
Arsenic acid	Hydrogen bromide	Phosphoric acid
Chromium sulphuric acid	Inorganic acids	Sulphuric acid
Hydrofluoric acid	Nitric acid	

Frequent contact with the following aggressive gasses causes changes in the HPL surface.

Acid vapour	Chlorine	Sulphur dioxide
Bromine	Nitrous vapours	

Should you have further questions regarding the chemical properties of Thermopal® HPL please contact your local customer service department.

The information in this technical data sheet was prepared using information gathered at the time of publication. While Tekform endeavours to update this information and maintain the accuracy and currency of its content, it should only be used as a guide and should not necessarily be regarded as applying to all situations. Tekform cannot guarantee that the information provided is wholly comprehensive, nor is this information intended as an alternate to any testing that the user may conduct to determine the suitability of the product for a particular application. Tekform reserves the right to revise specification data at any time without notice.

**CLEANING RECOMMENDATIONS**

A major advantage of your Thermopal laminate is that cleaning is simple. Usually a moist cloth is sufficient. Grease is easily removed with the use of diluted washing-up liquid. Brushes with hard bristles (but not wire brushes) may also be used.

For more stubborn stains please read the following information and apply the recommended cleaning products, or contact our customer service centre for more information.

<b>Light stains or dirt</b>	Use a dry or damp paper towel, cloth or sponge.
<b>Normal stains or dirt</b> Fat, oil and dirt particles, finger marks, lime deposits, rust, juice, coffee, tea, wax, blood, universal marker.	Use a cloth or soft nylon brush and washing powder, soap, or diluted washing liquid. If necessary, leave for a while and then rinse thoroughly with clean water.
<b>Heavy stains or dirt</b> Discolouration through long exposure to tea, coffee, juice or other beverages.	Use a non abrasive household cleaning agent such as Nifty or similar.