



## DESCRIPTION

Duropal Compact Laminate with microPLUS®# is a premium 10mm, high impact, moisture resistant, antibacterial and chemical grade decorative panel. It is a self supporting panel with a distinctive black core that offers a sleek and elegant look to most vertical or horizontal applications.

Duropal® Decorative Compact Laminate offers the superior antibacterial protection of microPLUS®. Effectively and safely eradicating 99% of harmful bacteria without harm to humans, animals or the environment, making it the perfect choice for any application where a hygienic and durable surface is required.

# For additional information on microPLUS® please refer to the microPLUS brochure and/or technical data sheet.

## APPLICATIONS

Duropal Compact Laminate with microPLUS® is suitable for vertical or horizontal interior applications. Due to its inherent strength makes it suitable for domestic or commercial applications to countertops, benchtops, shelving, tables, wall cladding, locker, laboratory and school furniture.

## PRODUCT CHARACTERISTICS

<b>Nominal Thickness</b>	10mm permissible deviation $\pm 0.55$ mm
<b>Flatness</b>	2.0 to $\leq 5.0$ mm/m permissible deviation
<b>Dimensional stability length &amp; width</b>	$\geq 2.0$ mm permissible deviation
<b>Edge straightness</b>	$\geq 2.0$ mm /m permissible deviation
<b>Sharpness</b>	$\geq 2.0$ mm /m permissible deviation
<b>Standard Sheet Size</b>	4100mm x 1300mm
<b>Pattern / Decor</b>	Double sided
<b>Core</b>	Homogeneously reinforced with cellulose fibres
<b>Core colour</b>	Black
<b>Surface Finishes &amp; Colour Range</b>	Refer to the Compact Laminate section of the current Availability Chart and/or Decorative Surfaces Sample Folder

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**TECHNICAL DATA**

Note: Duropal® Compact laminates are tested and conform to DIN EN 438.1 / ISO 4586.1.1995 results published below refer to this standard unless otherwise stated.

<b>Test</b>	<b>Result</b>
<b>Tensile Strength</b>	≥ 70 MPa (ISO 527-2)
<b>Elasticity Modulus</b>	≥ 10000 MPa (ISO 178)
<b>Resistance to bending</b>	≥ 100 MPa (ISO 178)
<b>Scratch resistance</b>	1.75 – 5.0 N depending HPL surface & décor colour
<b>Abrasion Behavior</b>	375 - 500 cycles - patterned decors 500 - 700 cycles plain colour decors
<b>Dimensional stability under climatic variation</b>	
– at elevated temperature	Pass
– at 20°C	Pass
<b>Resistance to boiling water</b>	Pass
<b>Resistance to cracking</b>	Pass
<b>Light fastness (Xenon Lamp)</b>	≥6 blue scale (general requirement not less than 6)
<b>Stain resistance</b> Group 1 & 2	5 – No visible change
Group 3 & 4	4 – Slight change of gloss and or colour
<b>Resistance to steam</b>	4 -5 – No visible change to slight change of gloss / colour only visible at certain viewing angles
<b>Resistance to cigarette burns &amp; hot cooking utensils</b>	4-5 – No visible change / slight 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

**ENVIRONMENTAL DATA**

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

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.

**CHEMICAL RESISTANCE**

Duropal® Compact Laminate & Duropal 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.

Aminosulphic acid ( up to 10%)	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 Duropal 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 Duropal® HPL please contact your local customer service department .

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**CLEANING RECOMMENDATIONS**

A major advantage of your Duropal Compact Laminate is that cleaning is simple. Usually a moist cloth is sufficient. Grease is easily removed with the use of diluted washing liquid. Stubborn dirt can be removed with an organic solvent such as methylated spirits. Brushes with hard bristles (but not wire brushes) may also be used.

If there is a more stubborn stain please read the following information and apply the recommended cleaning products, or contact our customer service centre for more information.

<p><b>Light stains or dirt</b></p>	<p>Use a dry or damp paper towel, cloth or sponge.</p>
<p><b>Normal stains or dirt</b> Fat, oil and dirt particles, finger marks, lime deposits, rust, juice, coffee, tea, wax, blood, universal marker.</p>	<p>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.</p>