

Chemical Resistance Properties

Bio Pro compact laminate is resistant to most common chemicals and substances. Test results meet the requirements of International Standard ISO 4586-2 which specifies resistance to staining by substrates which are encountered in daily usage and some aggressive materials commonly used in laboratories.

PERFORMANCE	CHEMICAL
No Visible Effect	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%, hypochloric bleach, hair dye, mercury chromate 2%, iodine 0.1%, hydrochloric acid (<10%), caustic soda (>10%)
Surface Attack / Necessitating immediate removal	Hydrochloric Acid (>10%, nitric acid (>10%), Sulphuric Acid (>10%)

Product Properties

PROPERTY	UNIT	TYPICAL PROPERTY	TEST METHOD
Density	Kg/m ³	1350 - 1450	ASTM D 792-1
Panel Tolerance:			
Length	mm	± 5	AS/NZS 2924.1
Width	mm	± 5	
Thickness	mm	± 0.5	
Colour		Stability Blue wool standard	AS/NZS 2924.1
		Min 6	
Thickness Swell (24hr @ 20°C)	%	< 0.1	EN 317
Tensile Strength	N/mm ²	> 80	DIN 53457
Flexural Strength	N/mm ²	> 100	DIN 53457
Resistance to Impact	N	> 20	AS/NZS 2924.1
Resistance to Scratch	N	> 2	AS/NZS 2924.1
Resistance to Surface Wear	Revolutions	> 350	350 AS/NZS 2924.1
Resistance to Steam		>4	AS/NZS 2924.1
Dry Heat Resistance, 180°C		> 4	AS/NZS 2924.1
Resistance to Staining			
Group 1 + 2		>5	
Group 3 + 4		>4	AS/NZS 2924.1
Flatness	mm/m	2mm - 6mm <8	EN 438.2
		7mm - 10mm <5	
		11mm - 25mm <3	