

HIGH PRESSURE LAMINATES



High Pressure Laminates



Panel Plus HPL was invented to meet the needs of interior decoration with a variety of designs and patterns. Panel Plus laminate has a high strength, scratches resistant, moisture resistant as well as heat resistant.

Standard size : 4 x 8 ft.
Thickness: 0.8 mm.

FEATURES



Impact Resistant



Scratch Resistant

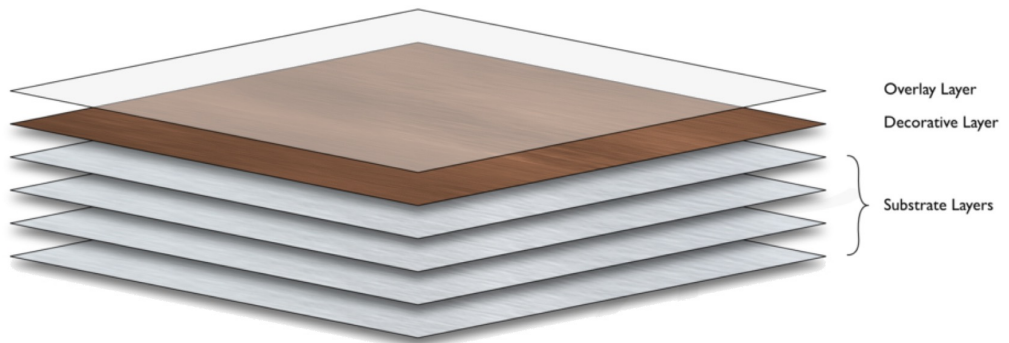


Heat Resistant



Easy to maintain

Components of High Pressure Laminate



Overlay Layer

Protective film to protect the color and pattern from fading and scratch resistant.

Decorative Paper

High quality printed paper with fine and realistic pattern impregnated with Melamine Resin.

Underlay (Only Solid Colors)

Use only the decorative Paper is solid color to protect the color distortion.

Substrate Layer

Kraft paper covered with multiple layers of Phenolic resin to achieve the optimum thickness.

APPLICATION

Table tops, cabinets, shelves, doors



Product Specification Based on European Standard BS EN438

PROPERTIES	UNIT	PANEL PLUS	BS EN438
Thickness	mm	0.8	0.7
Tolerance	mm	±0.1	±0.1
Resistance to surface wear	Min	600-700	350
Resistance to scratching	N.Min	2	2
Resistance to impact : Ball impact test	Min. Inch.	20	20
Resistance to Dry Heat at (180 C)			
a) Appearance: Gloss Finish	Min	5	3
b) Appearance: Others Finishes	Min	5	4
Resistance to Immersion in Boiling Water	Min		
a) Mass increase	% Max.	5	10
b) Thickness increase	% Max.	5	12
c) Appearance	Min	5	4
Resistance to cigarette burns	Min	4	3
Resistance to cracking	Min	5	4
Resistance to steam	Min	5	4
Resistance to staining			
Chemical Test a) Group 1&2	Min	5	5
Chemical Test a) Group 3&4	Min	4	4
Dimensional stability at elevated temperature	Max. (Cumulative)	0.19%	(L)% 0.55%
	Max. (Dimensional change)	0.42%	(T)% 1.05%
Properties	Unit	M30609 Anti-bacteria	Specified Value JIS Z 2801:2010
Antibacterial activity and efficacy	% Reduction	>99.99 (High Anti-Bacteria)	>99.99 (High Anti-Bacteria)