



Technical Data
Physical Properties of Solid Laminate 2-3/12-13mm
CNS & ASTM TEST

S NO	PHYSICAL PROPERTIES	2-3mm		12-13mm		Standards
1	Flammability	(flame application time 30 sec) Grade 1		(flame application time 30 sec) Grade 1		CNS 7614
2	Boiling water resistance Mass increasing rate Thickness swelling rate	1.40% 6.41%		0.42% 1.54%		CNS 11367
3	Surface abrasion resistance rotation of abrasion	450 cycle		500 cycle		CNS 11367
4	Flexural Test MD TD	18.1 kgf/mm ² 12.7 kgf/mm ²		16.5 kgf/mm ² 12.2 kgf/mm ²		CNS 11367
5	Dimension stability Length change rate (%) MD TD Appearance	70±2°C; 24hr	40±2°C/90 %RH; 96hr	70±2°C; 24hr	40±2°C/90 %RH; 96hr	CNS 11367
		-0.06	0.09	0.07	0.21	
		-0.16	0.20	-0.07	0.17	
		passed	passed	passed	passed	
6	Rockwell Hardness Test	HRM 110		HRM 114		CNS 13332
7	Tensile strength MD TD	14.2 kgf/mm ² 8.66 kgf/mm ²		-----		CNS 11367
8	Impact strength Test MD TD	4.57 kgf . cm/cm 3.23 kgf . cm/cm		7.69 kgf . cm/cm 5.65 kgf . cm/cm		ASTM D256
9	Compressive Test	1000 kgf/cm ²		> 850 kgf/cm ²		ASTM D695
10	Water Absorption Rate	0.87%		0.29%		ASTM D570
11	Stain Resistance (20 hours) 10% citric acid liquor 95% ethanol Acetone/Tea/Coffee/Milk/ Vinegar for cooking 1.1.1 Trichloro ethane	No influence		No influence		CNS 11367
12	Cigarette burning Test	No apparent change		No apparent change		CNS 11367
13	Density	1.45 g/cm ³		1.44 g/cm ³		CNS 13333
14	Coefficient of Linear Thermal Expansion MD TD	10.5 x 10 ⁻⁶ °C 19.0 x 10 ⁻⁶ °C		7.33 x 10 ⁻⁶ °C 17.6 x 10 ⁻⁶ °C		ASTM D696
15	Resistance to Impact (Height: 900mm) Appearance	No apparent change		No apparent change		CNS 11367
16	Cracking Resistance	Grade: 0 (No change, and no hairy cracks)		Grade: 0 (No change, and no hairy cracks)		CNS 11367