



Technical Data
Physical Properties of Solid Laminate 8/15/19mm
CNS & ASTM TEST

S NO	PHYSICAL PROPERTIES	8mm	15mm	19mm	Standards
1	Flammability	(flame application time 120 sec) Grade 1	(flame application time 30 sec) Grade 1	(flame application time 30 sec) Grade 1	CNS 7614
2	Boiling water resistance Increasing in mass Swelling in thickness Appearance	0.33% 2.04% passed	-----	-----	CNS 11366 CNS 11367
3	Surface abrasion resistance rotation of abrasion	1050 cycle	1500 cycle	1300 cycle	CNS 11367
4	Flexural strength MD CD	16.5 kgf/mm ² 11.6 kgf/mm ²	17.2 kgf/mm ² 13.0 kgf/mm ²	17.7 kgf/mm ² 12.9 kgf/mm ²	CNS 11366 CNS 11367
5	Dimension stability Change in dimension MD CD Appearance	0.14% 0.20% passed	0.08% 0.35% passed	0.39% 0.12% passed	CNS 11366 CNS 11367
6	Hardness (Rockwell)	HRE 80	HRE 88	HRE 75	CNS 2114
7	Tensile strength MD CD	13.0 kgf/mm ² 8.5 kgf/mm ²	15.7 kgf/mm ² 9.5 kgf/mm ²	15.4 kgf/mm ² 9.3 kgf/mm ²	CNS 11367
8	Impact strength (Izod) MD CD	-----	4.2 kgf * cm/cm of notch 3.5 kgf * cm/cm of notch	6.1 kgf * cm/cm of notch 4.9 kgf * cm/cm of notch	ASTM D256
9	Compressive strength	-----	2404 kgf/cm ²	2135 kgf/cm ²	ASTM D695
10	Resistance to moisture	-----	0.48%	0.40%	ASTM D570
11	Resistance to staining (24 hours) 10% citric acid liquor 95% ethanol Acetone 1.1.1 chlorothene	-----	No Effect No Effect No Effect No Effect	No Effect No Effect No Effect No Effect	CNS 11367
12	Resistance to Cigarette burns Appearance	-----	No burn marks 、 No fading 、 No cracks 、 No blisters	No burn marks 、 No fading 、 No cracks 、 No blisters	CNS 11367
13	Density	-----	1.44 g/cm ³	1.44 g/cm ³	CNS 13333
14	Linear coefficient of thermal expansion MD CD	-----	1.16x10 ⁻⁵ °C ⁻¹ 2.48x10 ⁻⁵ °C ⁻¹	1.26x10 ⁻⁵ °C ⁻¹ 2.72x10 ⁻⁵ °C ⁻¹	ASTM D696
15	Resistance to Impact (Height: 900mm) Appearance	-----	No cracks and dent	No cracks and dent	CNS 11367